

TRUEX & VAIL,  
SOLE LICENSEES,

*Sub*

The  
Electro-Dynamic Company  
of Philadelphia.







ELECTRIC LIGHTING PLANT.

EDCO SYSTEM.

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INCANDESCENT LIGHTING.

DIRECT AND WITH STORAGE BATTERIES.

---

ARC LIGHTING.

---

ELECTRIC MOTORS,

MEASURING INSTRUMENTS,

AND

GENERAL ELECTRIC SUPPLIES.

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THE ELECTRO-DYNAMIC COMPANY

OF PHILADELPHIA,

No. 224 CARTER STREET.



## OFFICERS.

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H. R. PARRISH, Secretary and Treasurer,

D. H. BATES, General Manager.

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W. W. GRISCOM, Consulting Engineer.

L. T. PAUL, General Superintendent.

E. A. SCOTT, Superintendent.



THE ELECTRO-DYNAMIC COMPANY, organized in 1880, has now had eight years' experience in the manufacture and installation of electric light machinery and appliances, both for arc and incandescent lighting.

It has installed some of the largest isolated plants in this country, and is the pioneer in the introduction of STORAGE BATTERIES for domestic lighting, especially from CENTRAL STATIONS.

In this branch of the business it has demonstrated the entire success of the system, both from an electrical and business standpoint, and to the entire satisfaction of the consumer.

The Electro-Dynamic Company is prepared to erect and equip on short notice, central station plants of any size, with either the direct or storage battery system, and deliver them in perfect running order.

It manufactures, in addition to electric light machinery, ELECTRIC MOTORS of all sizes, adapted for domestic use in connection with storage batteries or the direct current, or for manufacturing purposes; electric ventilating fans, electric pleasure yachts, electric launches, etc. Also MEASURING INSTRUMENTS of various capacities, adapted to practical use in light and power plants.



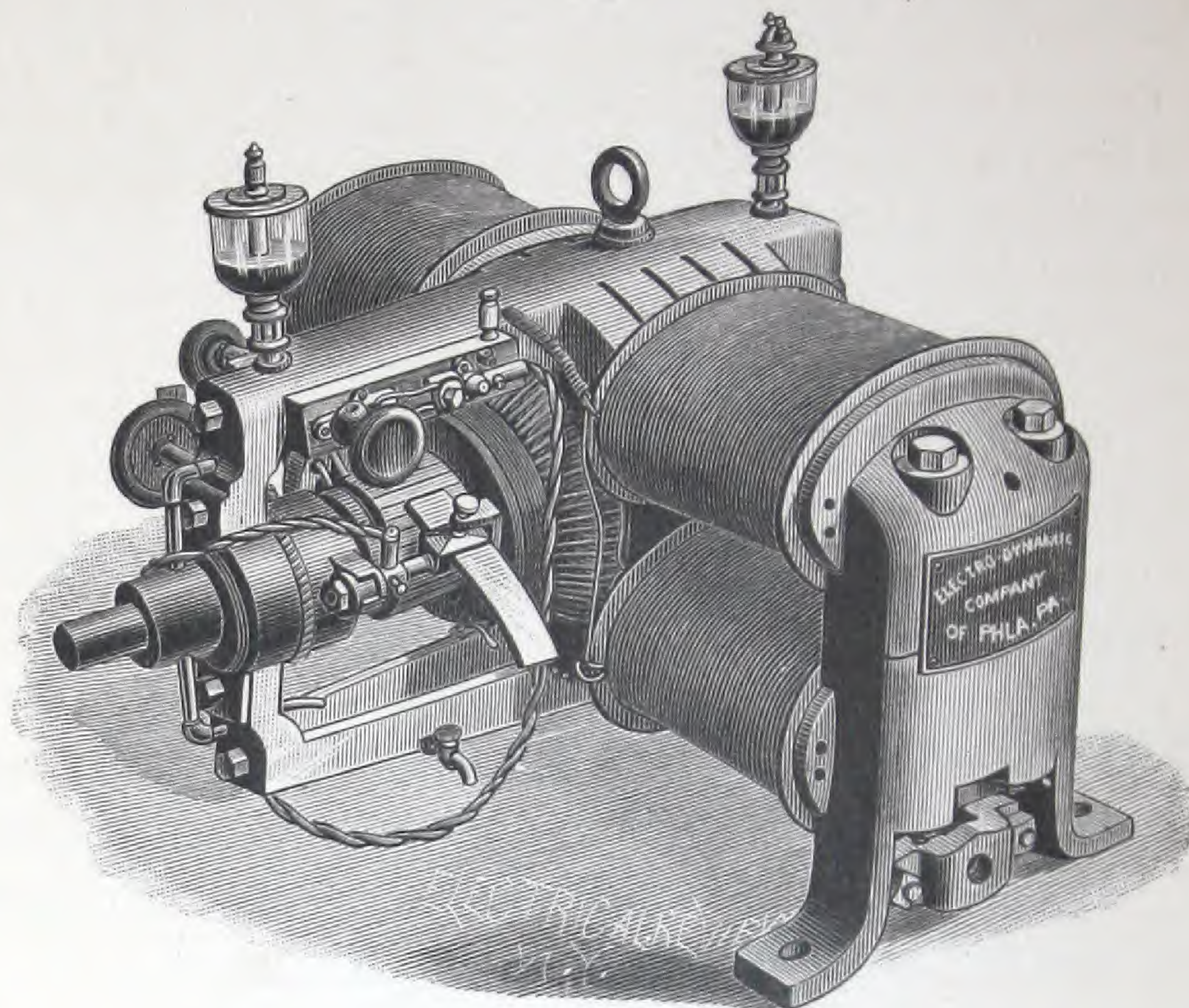


Fig. 1.

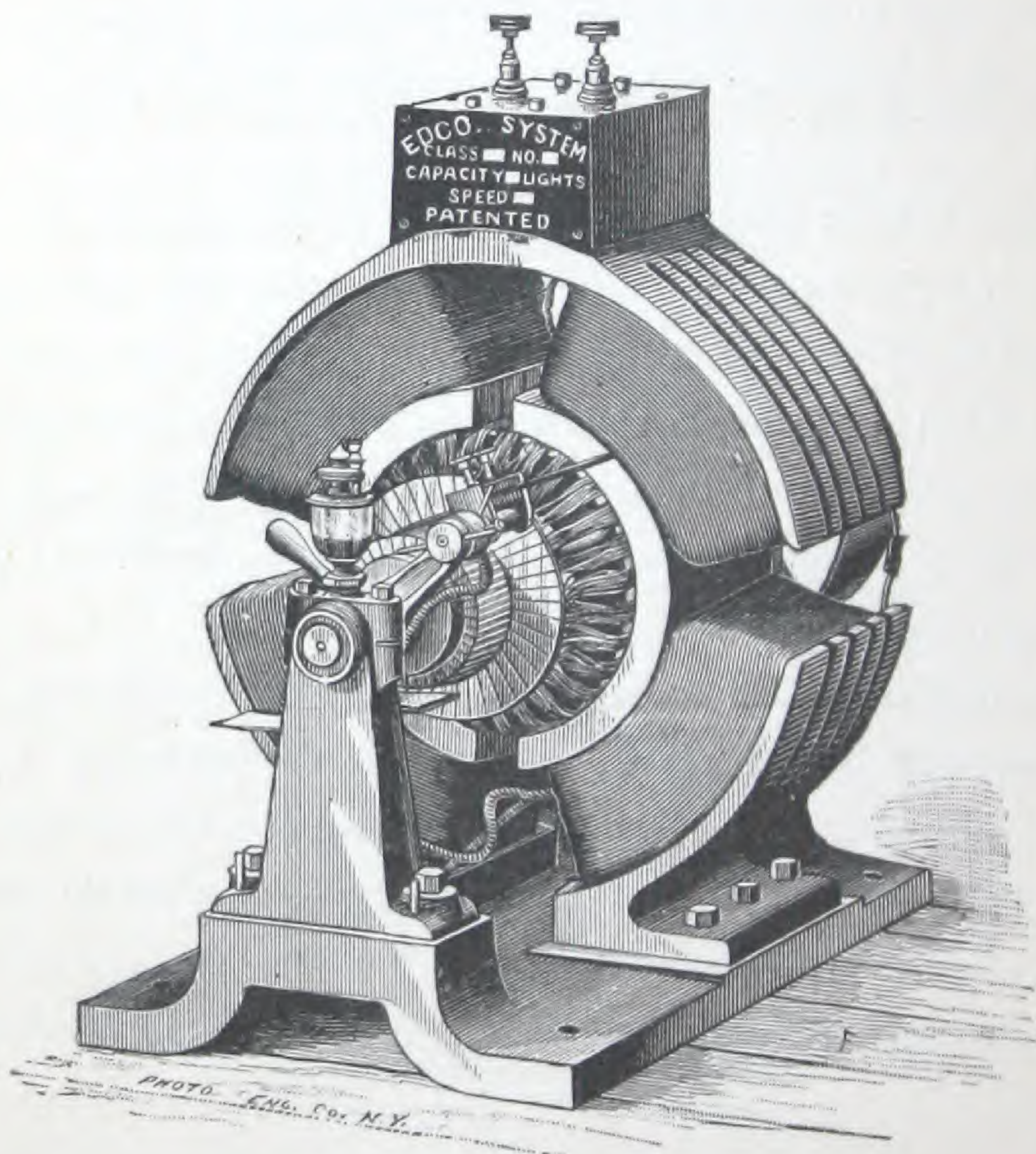


Fig. 2.



The Edco Dynamos, manufactured by this Company, are constructed of various types, suitable for arc lighting, direct incandescent lighting, for charging accumulator batteries, and for alternating currents.

They are the outgrowth of long practical experience in the manufacture of electrical machinery, embody in their construction all the best points in dynamo building, and are believed to be superior in economy of power to any others in the market.

They are simple in construction, do not readily get out of order with proper use, and have invariably given satisfaction wherever installed. They have an electrical efficiency of fully 95 per cent. This is a strong statement, but it is fully sustained by daily experience in many installations. Fig. 1 is an Edco Dynamo, class C. S., which is similar in appearance to all the lettered types.

Another form is shown by Fig. 2.

### PRICE-LIST OF DYNAMOS.

ARC.			INCANDESCENT.			
Type.	Number of Lights.	Price.	Type.	Volts.	Amperes.	Price.
A	1	\$250	C. S.	75	40	\$500
C	5	500	C. S.	125	40	550
C	10	950	C. S.	85	60	600
E	18	1,500	E. S.	75	75	800
			E. S.	200	40	900
H	25	2,000	E. S.	85	100	950
H	35	2,500	F. S.	300	40	1,000
I	40	2,800	F. S.	125	100	1,100
J	50	3,200	H. S.	125	150	1,500
			H. S.	125	175	1,800
			H. S.	125	200	2,000
			H. S.	800	35	2,250
			H. S.	1,000	35	2,500
			I. S.	1,000	40	2,800



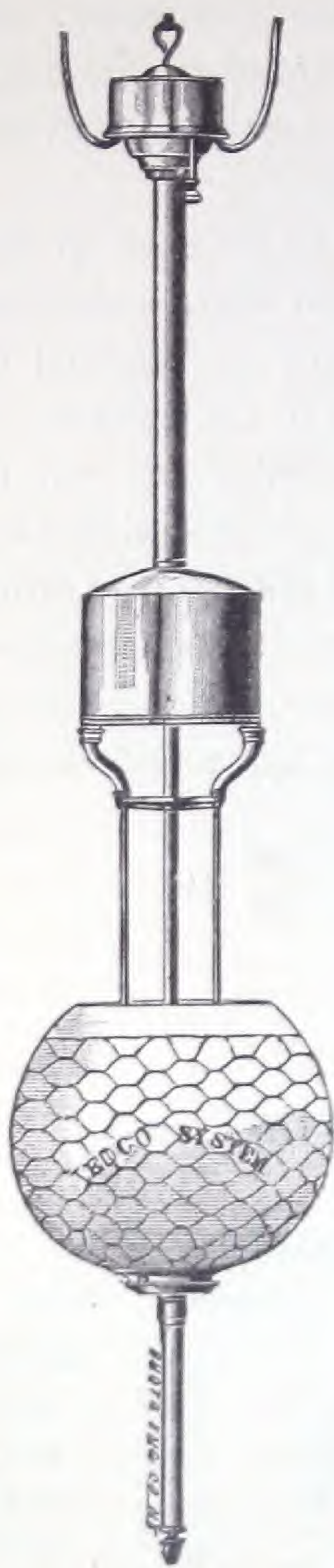


Fig. 3.

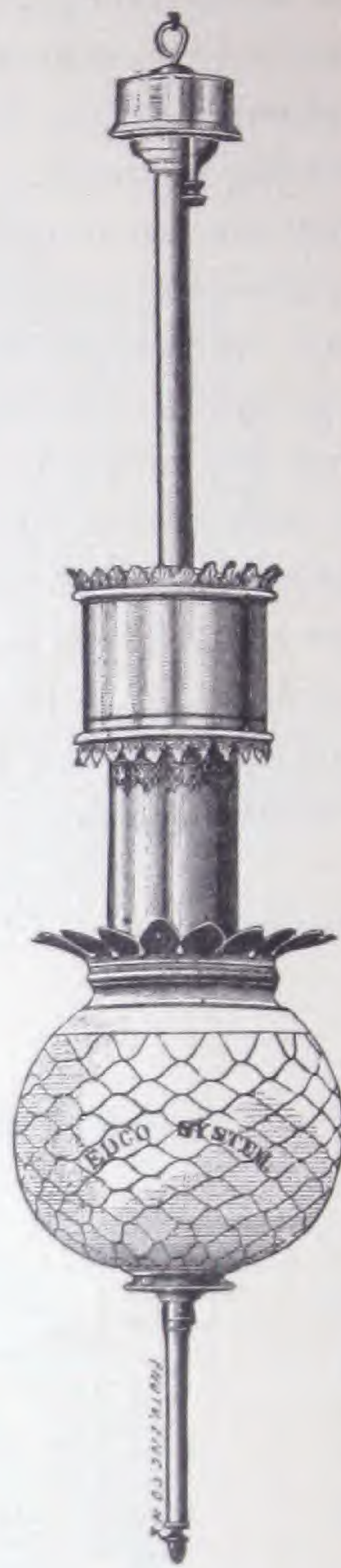


Fig. 4.

### ARC LAMPS.

The EDCO ARC LAMPS, shown by Figs. 3 and 4, of 2,000 nominal candle-power, are of two styles, plain and ornamental, and are made for single or double carbons. The regulating apparatus is very steady and certain in its operation, and so simple that any machinist can understand it. The single carbon



lamps burn about eight hours, if good carbons are used, and the double carbon lamps about fifteen hours before the carbon must be renewed.

Prices, single carbon lamp, plain, . . .	\$50.00
“ “ “ “ ornamental, .	65.00
“ double carbon lamp, plain, . . .	60.00
“ “ “ “ ornamental, .	80.00

### ELECTRIC MOTORS.

There is no application of electricity for which there is a more inviting field than its use for running small machinery. Nothing stands in the way of its use in manufacturing and for domestic purposes, except the means of supplying the motors with electricity. Electric light plants are at present nearly the only resource, but the demand for current must soon result in the establishment of power plants in every city and village.

A machine which can cheaply furnish from one-quarter to five or ten horse power without the expensive and annoying accessories of a steam plant has a utility which does not need to be demonstrated, and electric light companies are largely adding to their revenue by furnishing current for motors during the daytime when their

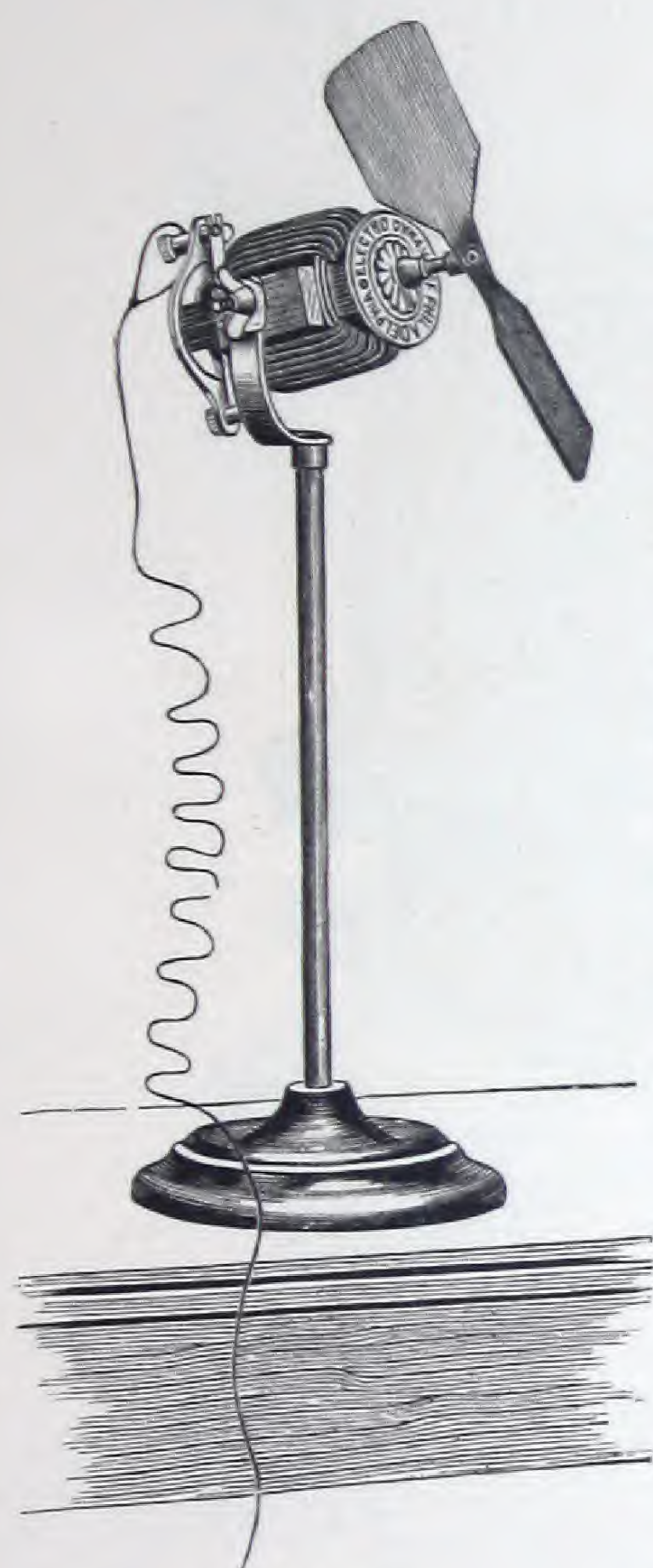


Fig. 5.

generating machinery would otherwise be idle.

The Electro-Dynamic Company, which has been building motors for the past eight years, is prepared to furnish them of all sizes, from one-eighth to twenty horse power and upward, suitable for running sewing-machines, ventilating fans, and other light machinery, or for propelling boats and street cars, running printing presses, saw mills, machine shops, etc.



The ELECTRIC FAN, shown by Fig. 5, is a small motor requiring but a fraction of an ampere of current, with a rotating fan,  $7\frac{1}{2}$  inches in diameter, for use on desks in sitting-rooms, or any apartment where a breeze is occasionally desirable. The same motor, suitably wound, is used for driving sewing-machines and for dental purposes.

Price, Fan Motor, . . . . .	\$25.00
“ Sewing-Machine Motor, . . . .	25.00
“ Dental Motor, . . . . .	28.00

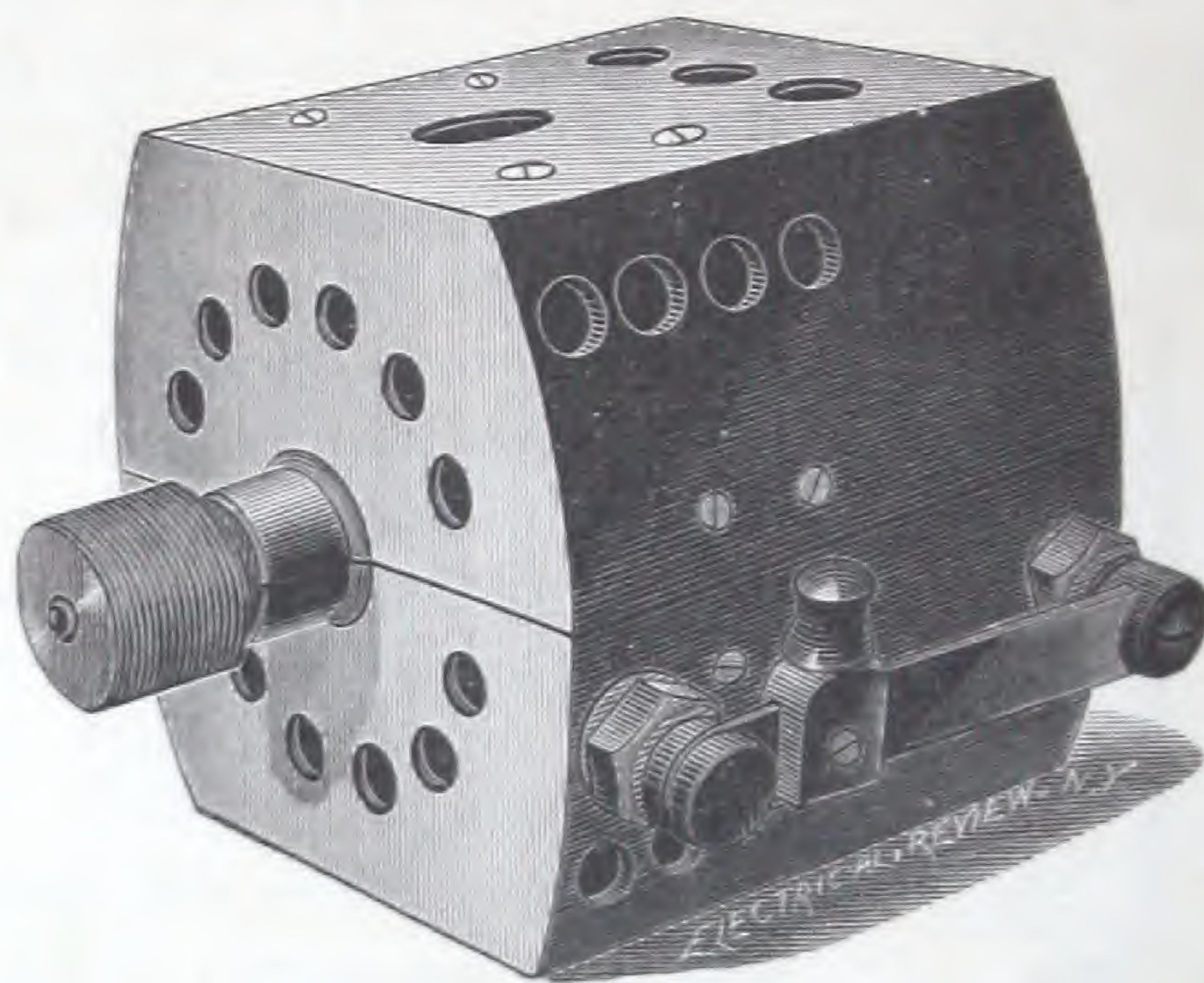


Fig. 6.

The Manufacturing Motor, shown by Fig. 6, is suitable for large sewing-machines and for light manufacturing purposes.

Price, 60 volts, . . . . .	\$45.00
“ 100 “ . . . . .	48.00

The EDCO Five Horse Power Motor, Fig. 7, and Edco Ten Horse Power Motor, Fig. 8, are favorite styles, giving great economy in the use of current.

Price, 5 H. P., . . . \$500.00	Price, 15 H. P., . . \$1,000.00
“ 7 “ . . . 600.00	“ 20 “ . . 1,200.00
“ 10 “ . . . 750.00	“ 25 “ . . 1,400.00



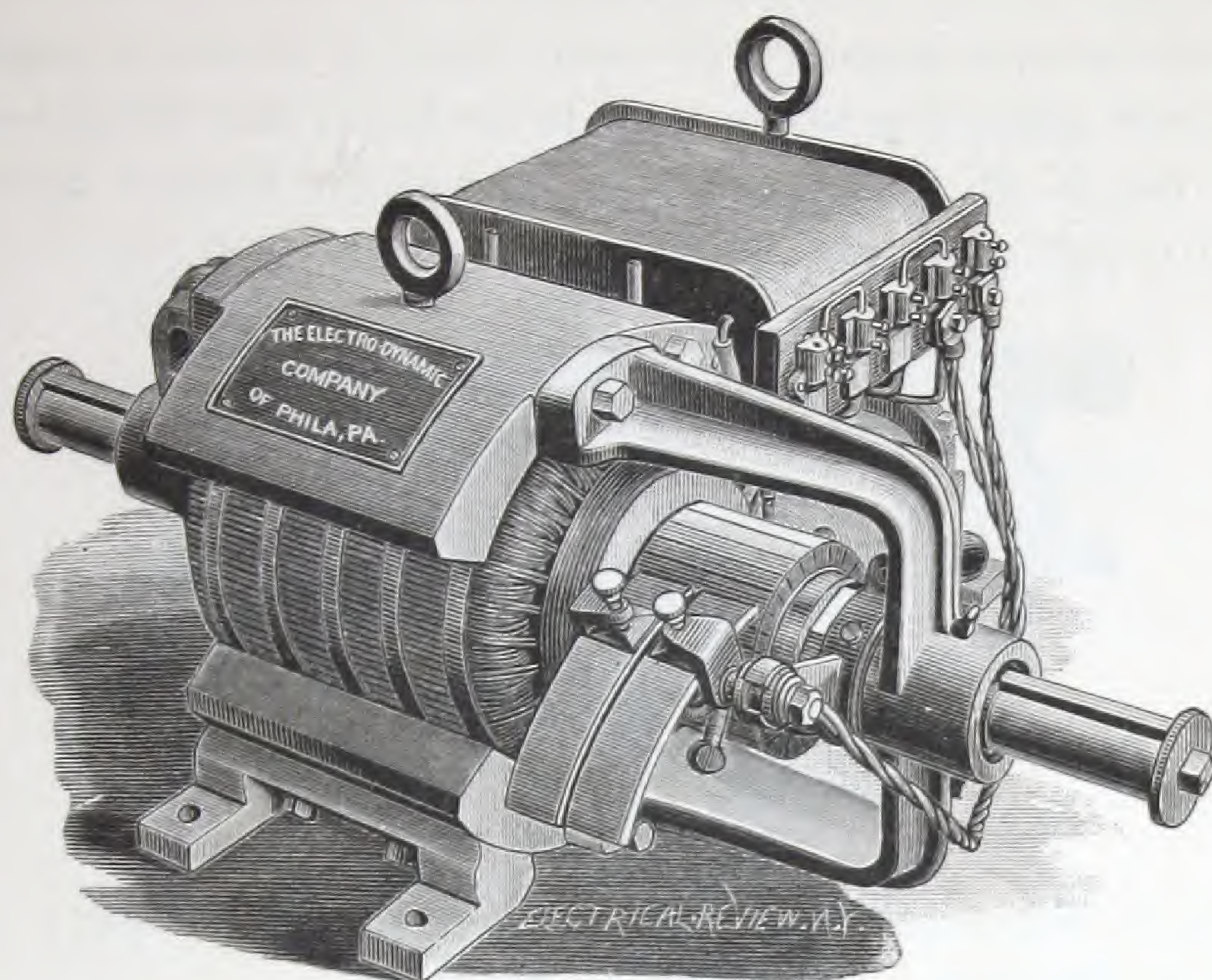


Fig. 7.

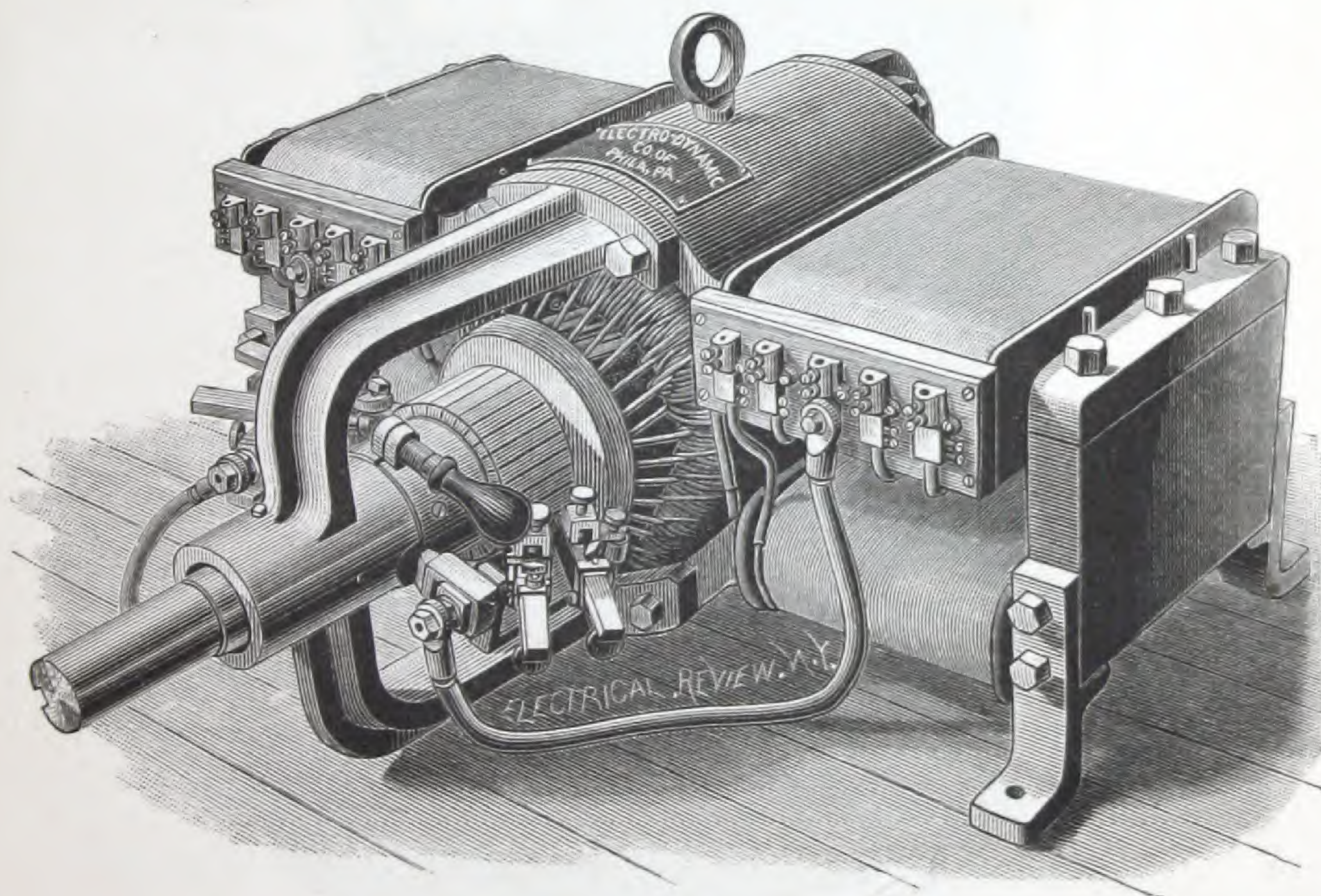


Fig. 8.



## RHEOSTATS.

Rheostats are necessary for some types of motors to regulate the speed according to the work to be done; for dynamos, to vary the E. M. F. of the current, and for storage batteries under certain conditions.

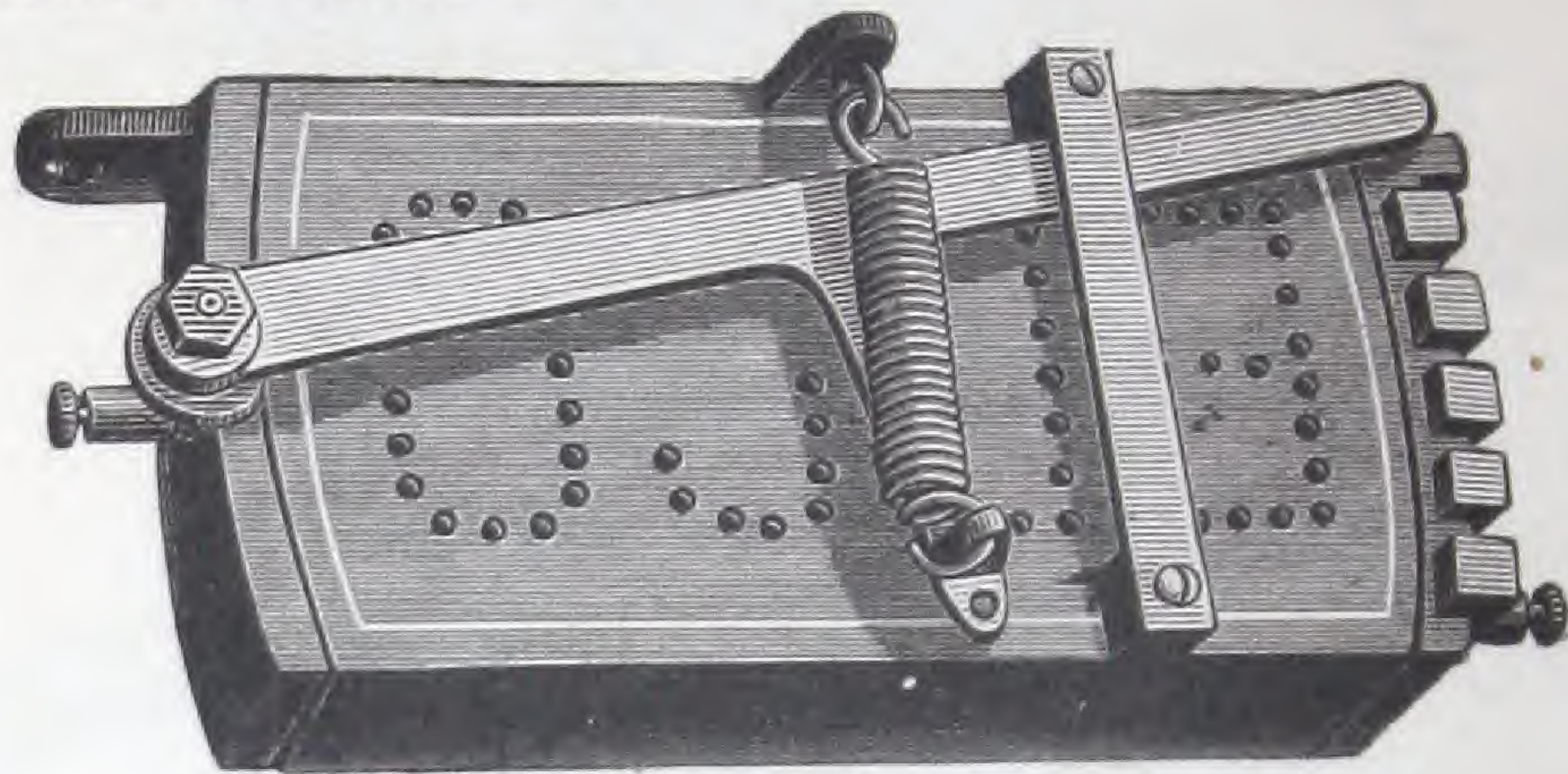


Fig. 9.

Fig. 9. Rheostat for use with sewing-machine motor; operated by the foot.

Price, . . . . . \$10.00



Fig. 10.



Fig. 10. Rheostat for 75-volt dynamo. Oak case, open sides.

Price, . . . . . \$50.00

Large Rheostat for high voltage dynamos, used for central station work with storage batteries. Resistance 1,500 to 2,000 ohms. This Rheostat should be provided with a double pole break switch. Shown in Fig. 38.

Price, . . . . . \$200.00

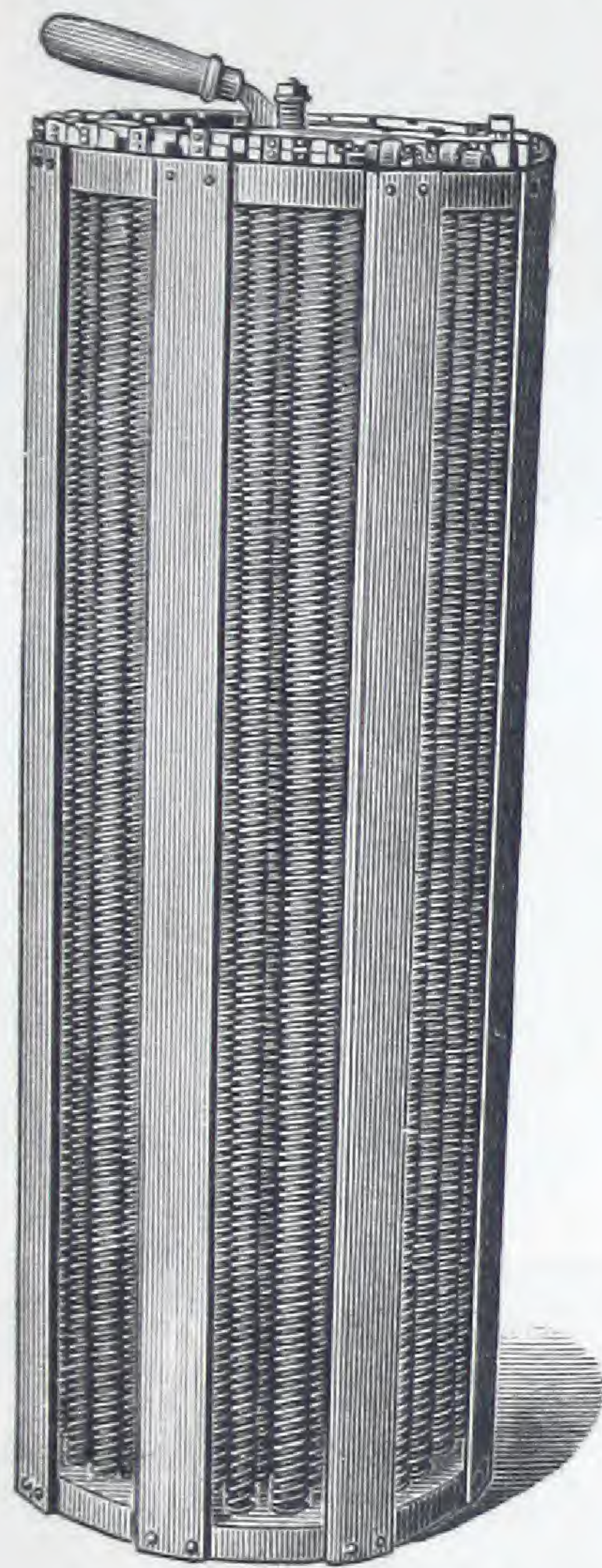


Fig. 12.

Fig. 12. Rheostat, cylindrical form, 20 ohms ; convenient for laboratory use.

Price, . . . . . \$60.00

Rheostat for regulating the resistance of storage batteries.

Price, . . . . . \$15.00 to \$500.00



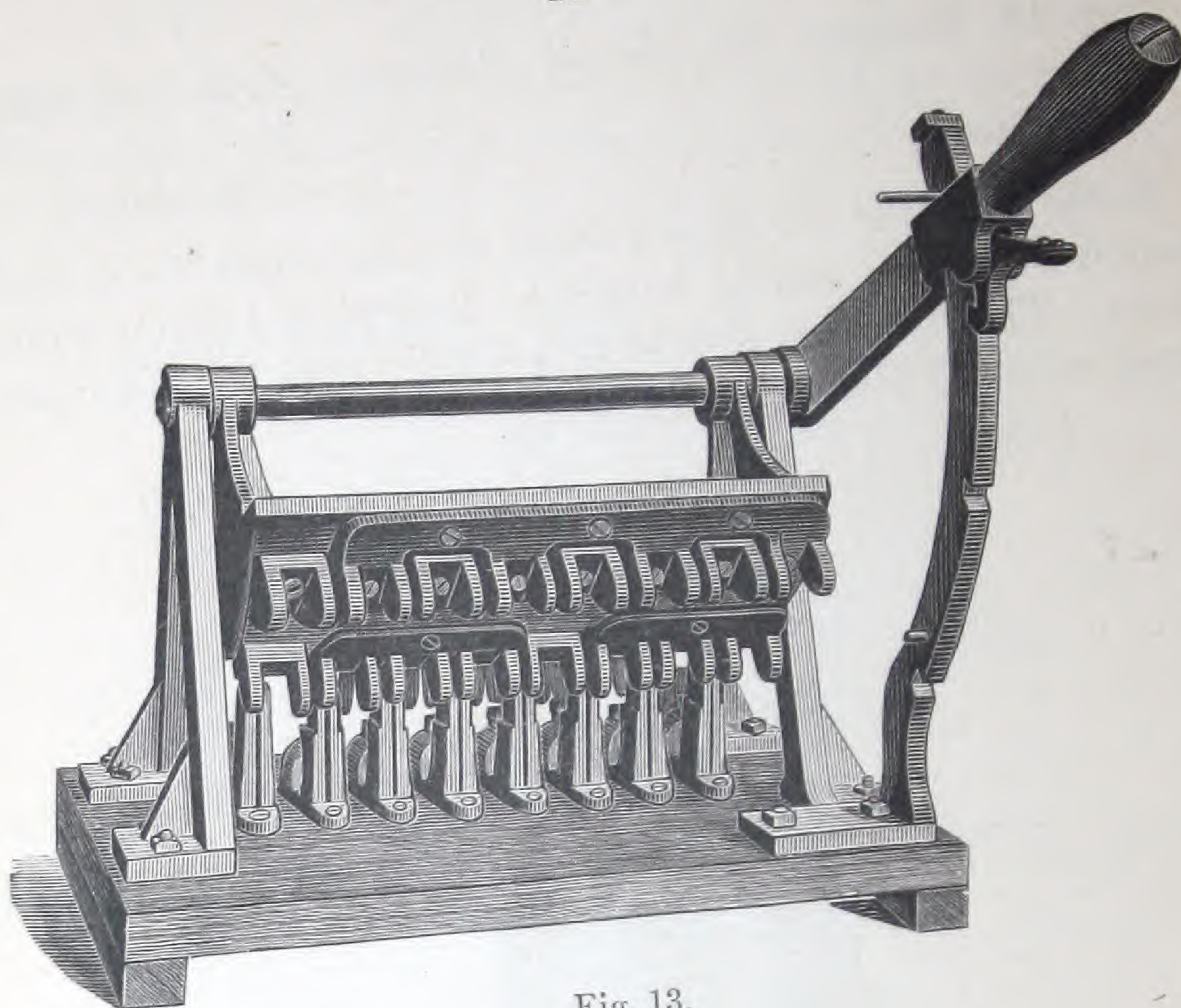


Fig. 13.

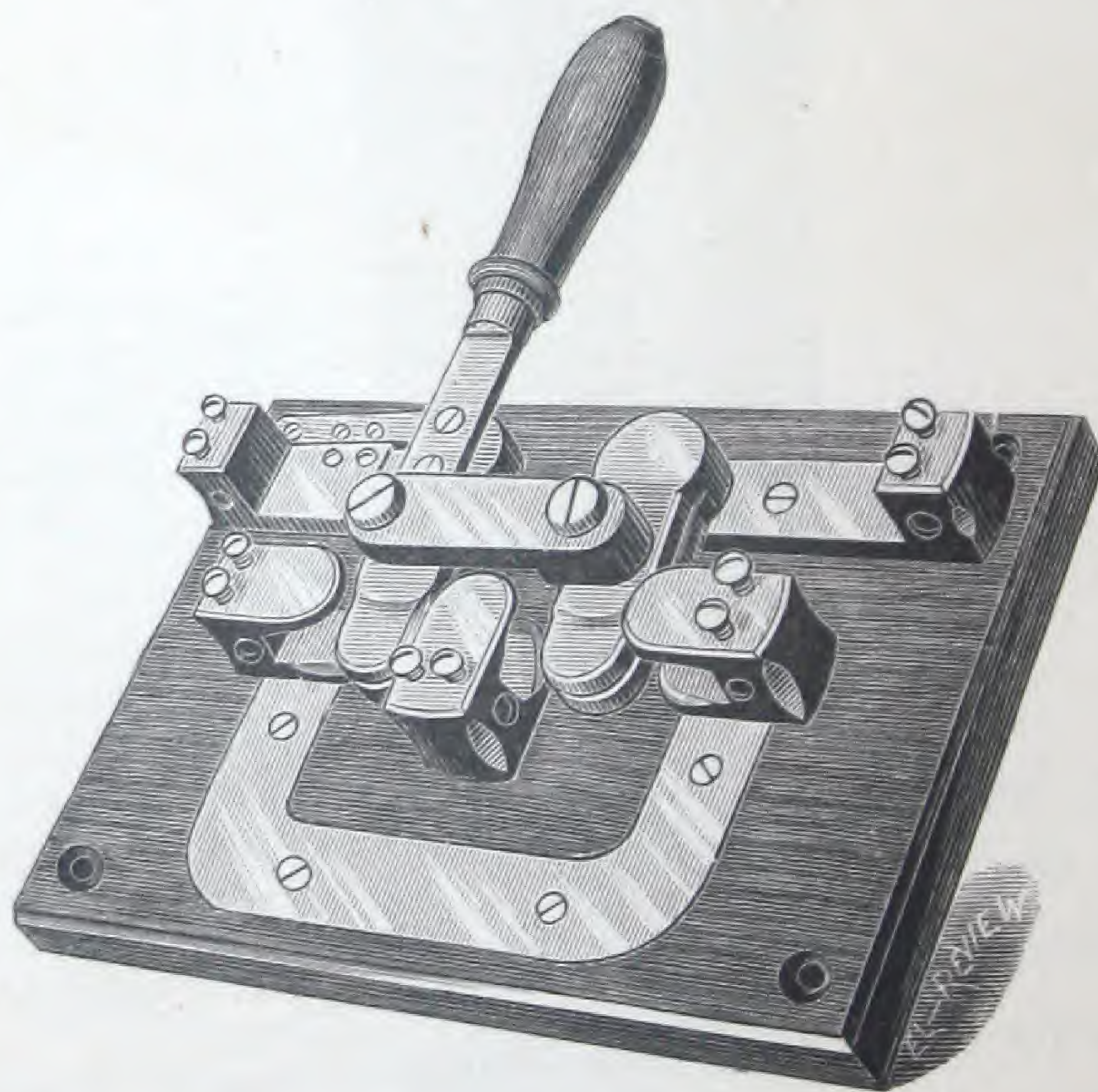


Fig. 14.



## SWITCHES.

The switches manufactured by the Electro-Dynamic Company are in great variety. Many new and special forms have been devised within the last two years to meet the new conditions in connection with the use of storage batteries.

Fig. 13. Commutator Switch for 10 H. P. Motor.

Price, . . . . . \$100.00

Fig. 14. Reversing Switch, to change direction of current.

Price, . . . . . \$25.00

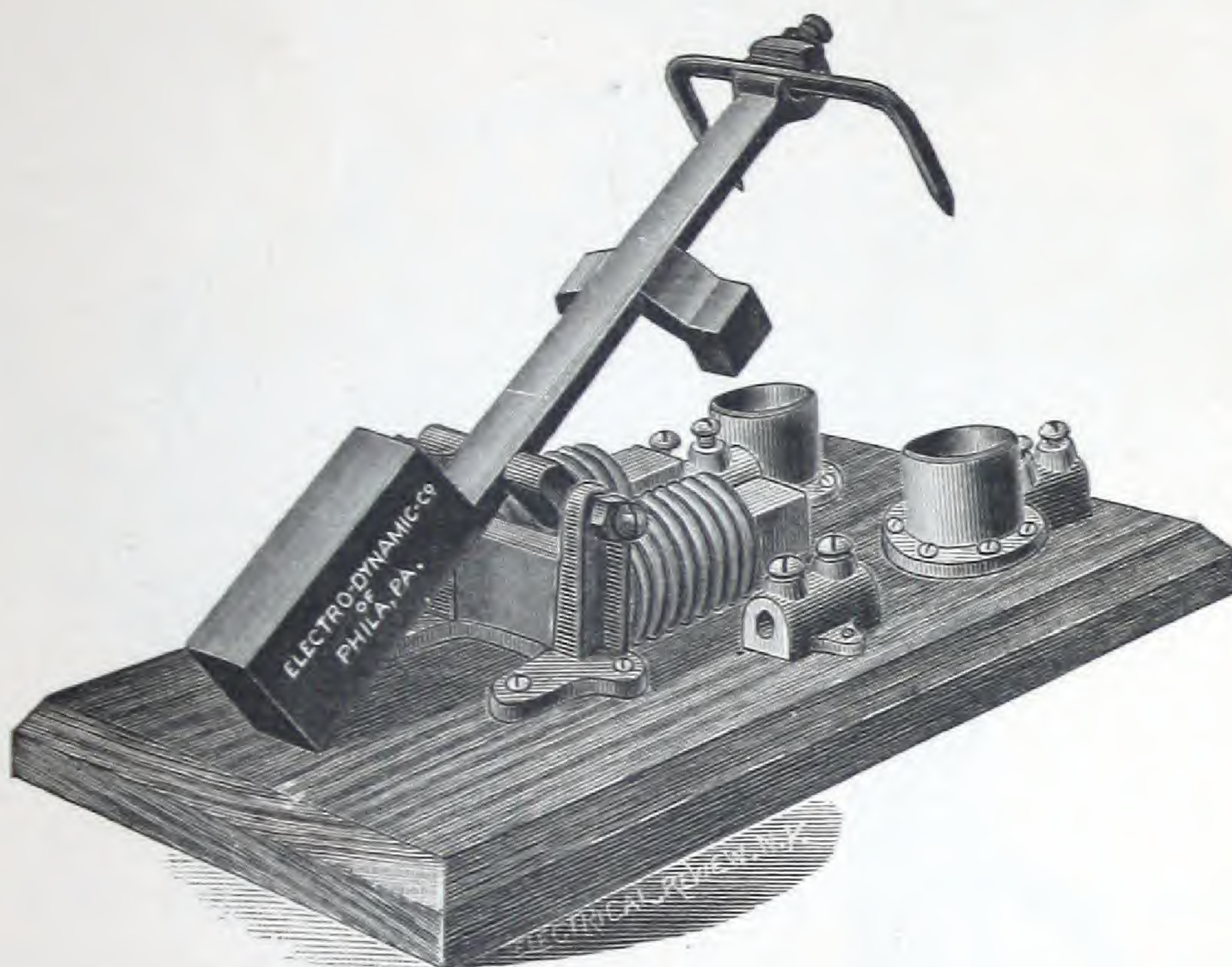


Fig. 15.

Fig. 15. Break Switch, cheap form, to open circuit automatically, by gravity, when current falls below a predetermined number of amperes.

Price, . . . . . \$15.00

Fig. 16. Automatic Spring Break Switch, for same purpose as Fig. 15, but designed to open by a spring; for use on railroad trains where the motion of the train would preclude the use of the gravity switch.

Price, . . . . . \$20.00



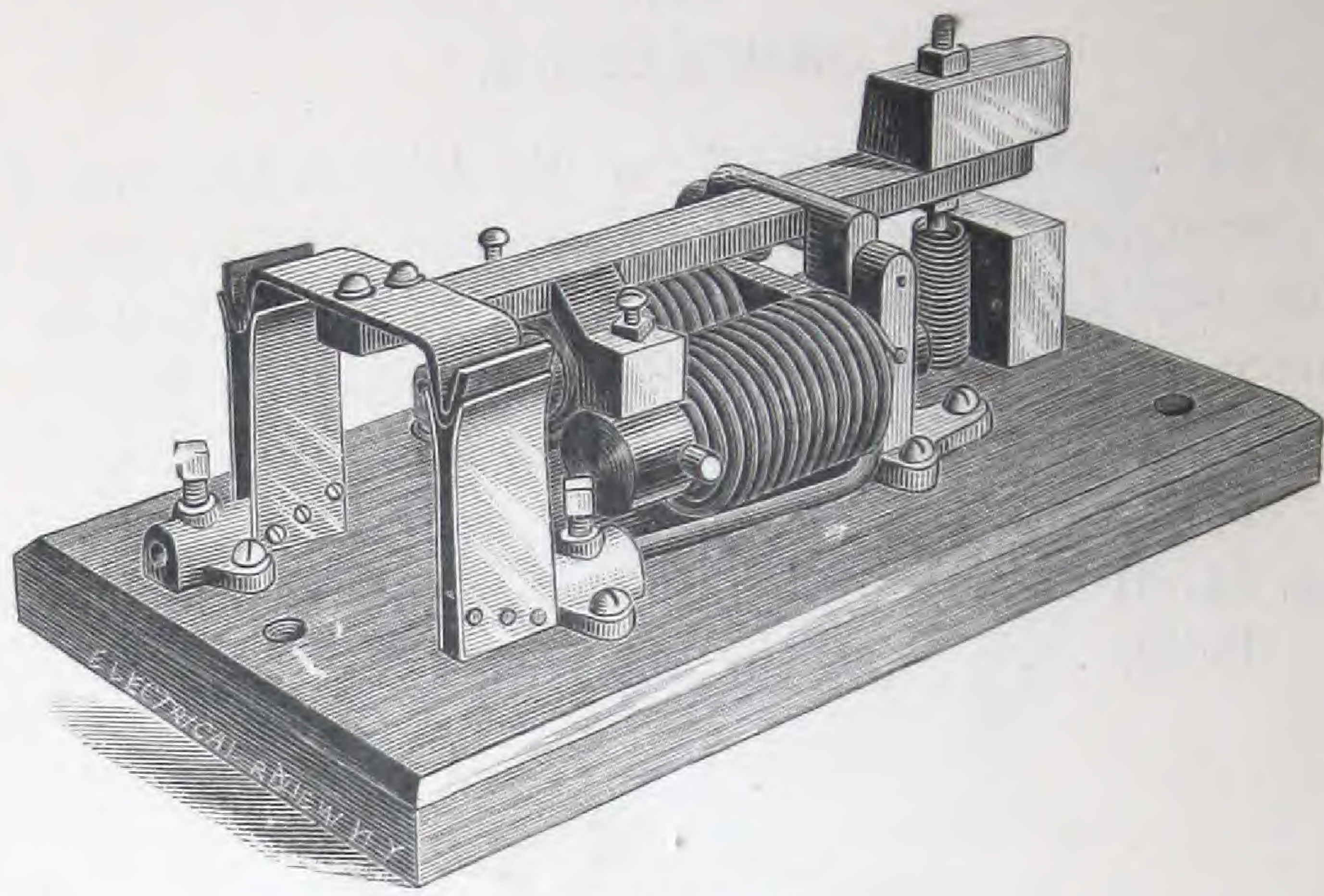


Fig. 16.

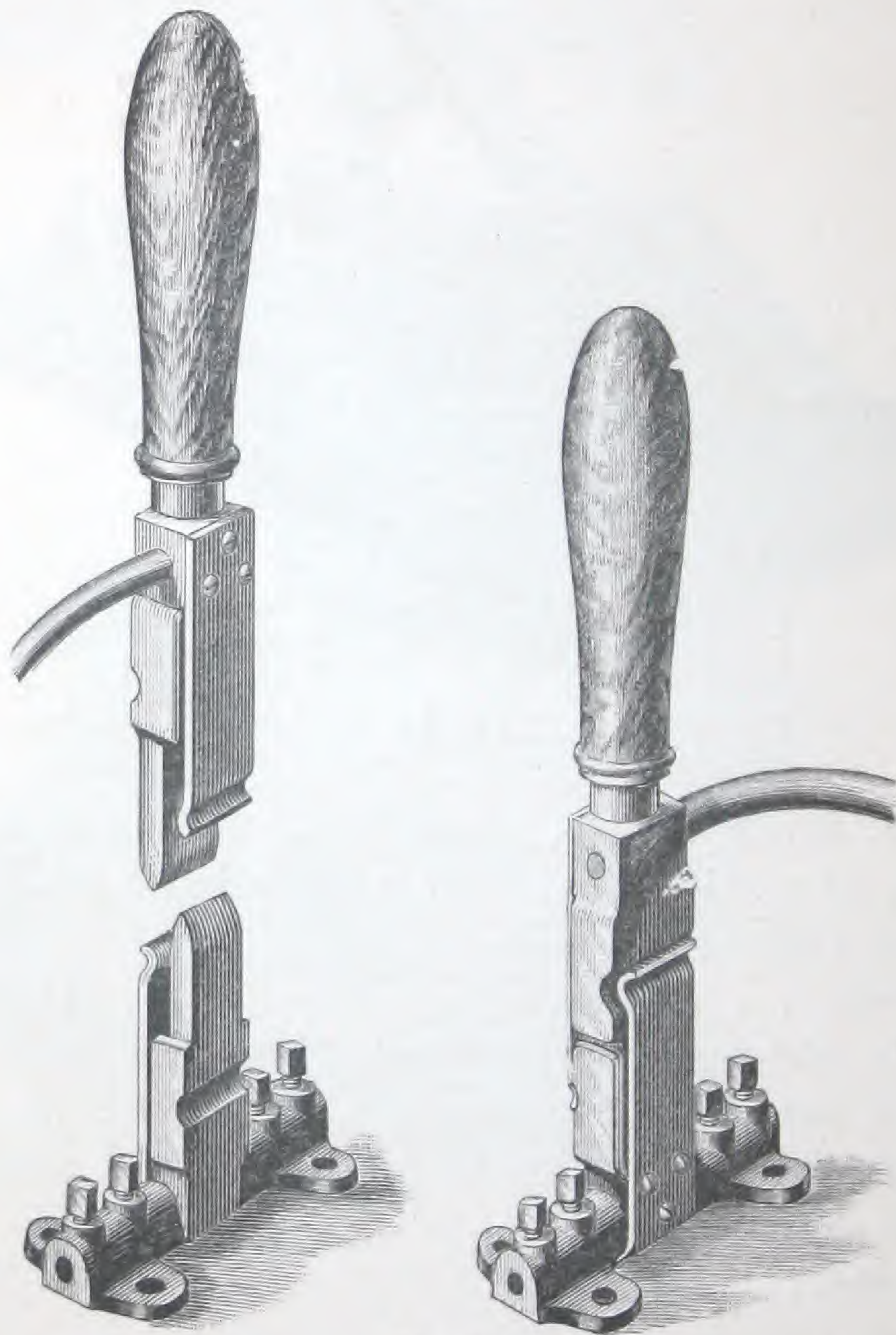


Fig. 17.



Fig. 17. Dynamo Plug and Socket Switch, for connecting Dynamo with circuit.

Price per pair, . . . . . \$10.00

Automatic Spring Break Switch, another form for car use, with handle for closing it.

Price, . . . . . \$50.00

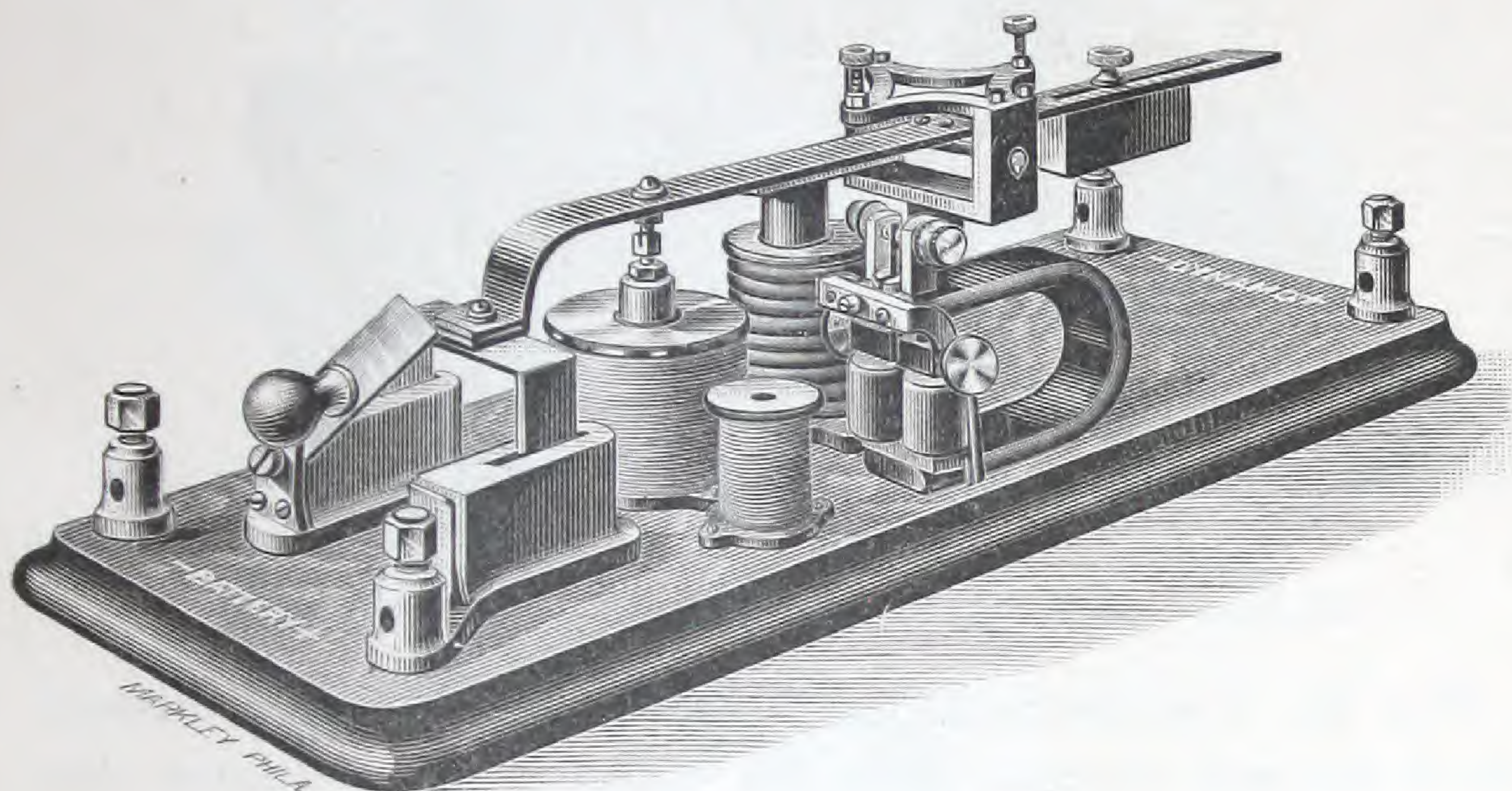


Fig. 19.

Fig 19. Edco Automatic Switch, used in charging batteries. Closes circuit automatically when E. M. F. of dynamo exceeds that of the batteries, and opens circuit as soon as the E. M. F. falls below a given figure.

Price, mahogany case, 35 amperes, . . \$125.00  
 " " " 400 " . . 200.00

Fig. 20. Consumer's Switch, No. 3, for connecting a house battery in series with central station charging circuit; with heavy spring contacts, and a device to prevent short-circuiting of battery.

Price, . . . . . \$16.50



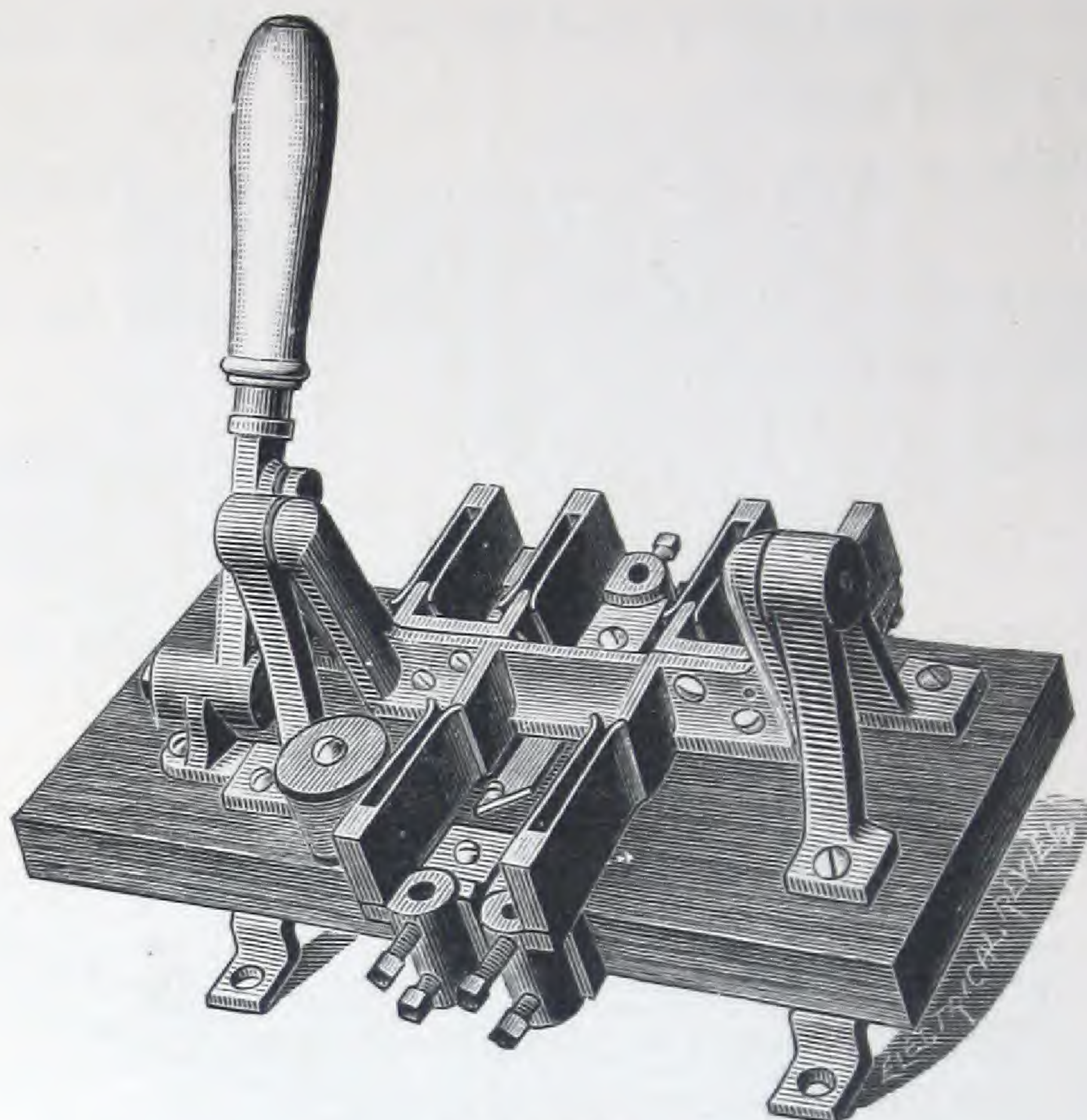


Fig. 20.

Fig. 21. Transfer Switch, No. 3, for transferring a battery which has been charged, from the charging to a common discharging circuit.

Price, . . . . . \$18.00

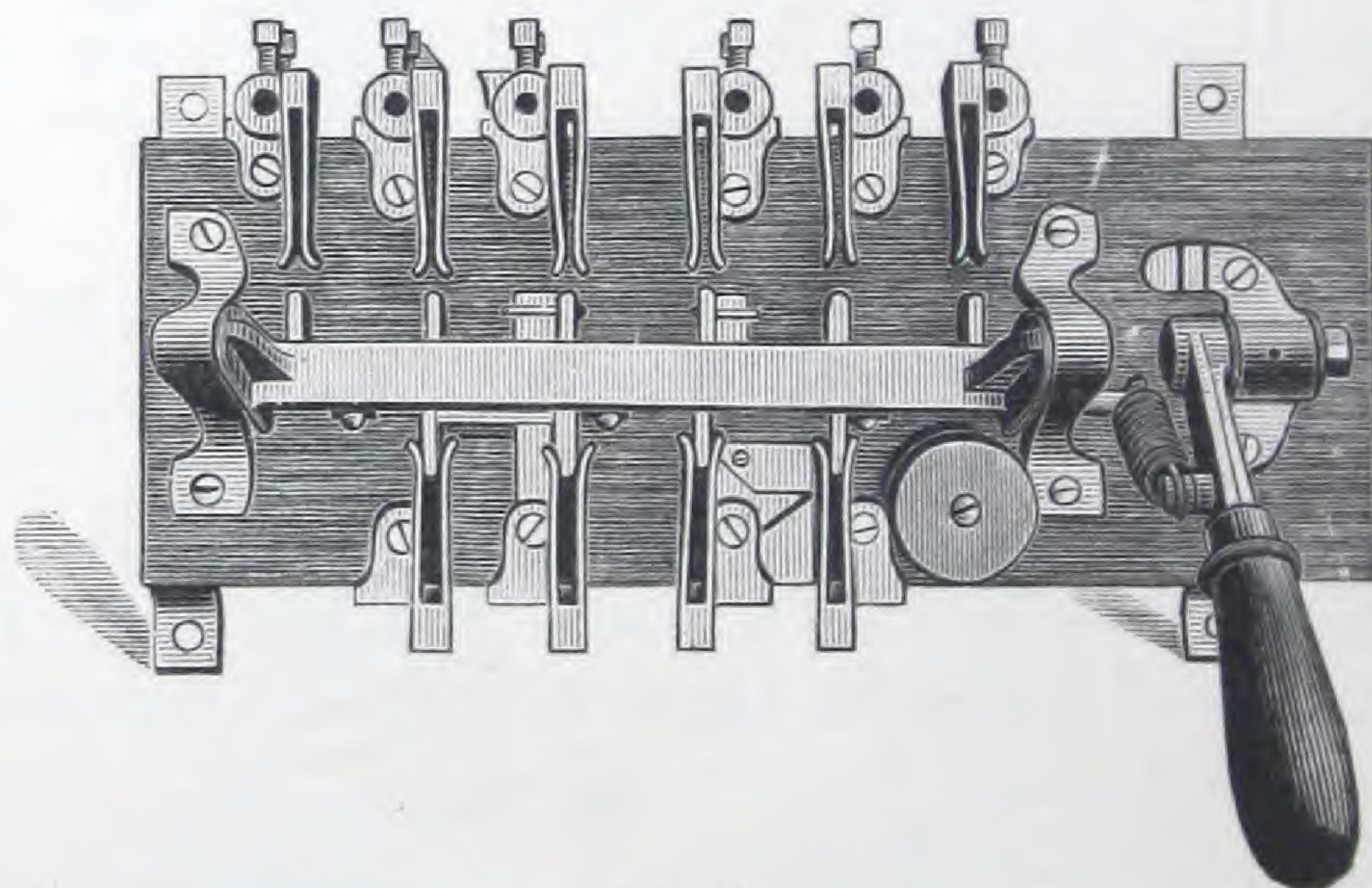


Fig. 21.



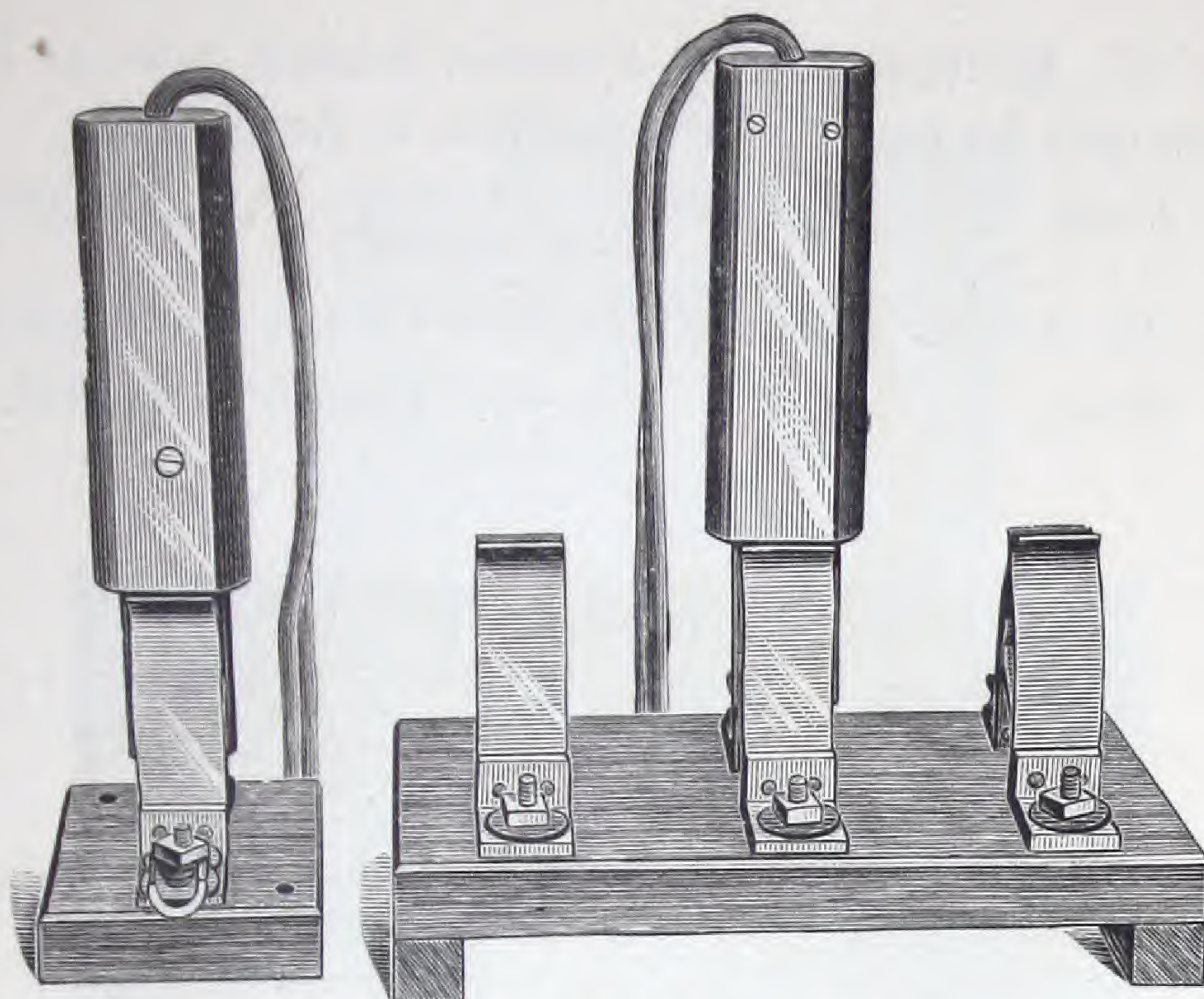


Fig. 22.

Fig. 22. Multiple Circuit Ammeter Switch, used to insert an ammeter successively in various circuits.

Price, with plug and cable, . . \$10.00 to \$30.00

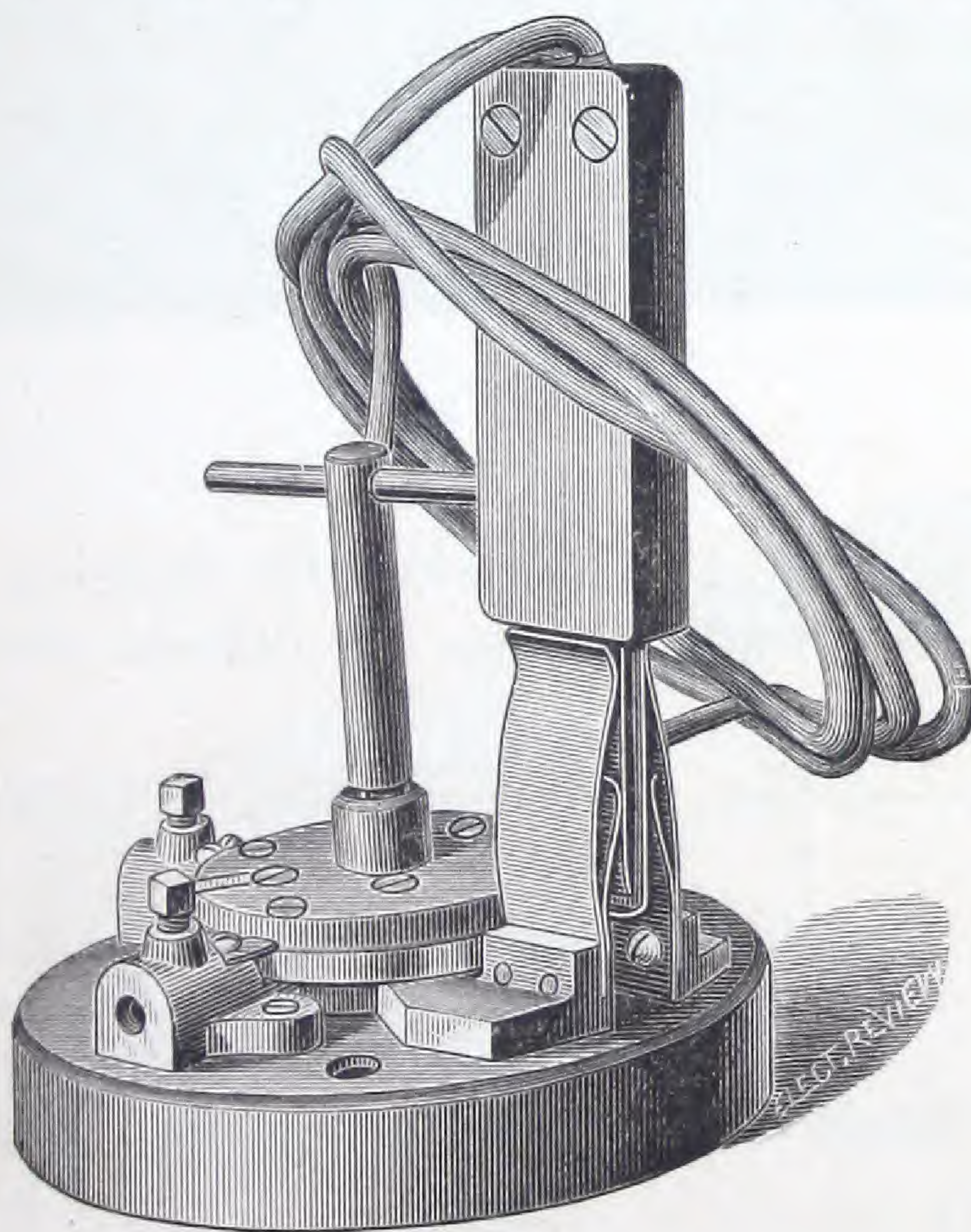


Fig. 23.



Fig. 23. Multiple Circuit Ammeter Switch, same as Fig. 22, but arranged for permanent connection to Ammeter.

Price, . . . . . \$30.00

Fig. 24. Another form of Multiple Circuit Ammeter Switch.

Price, . . . . . \$26.00 to \$50.00.

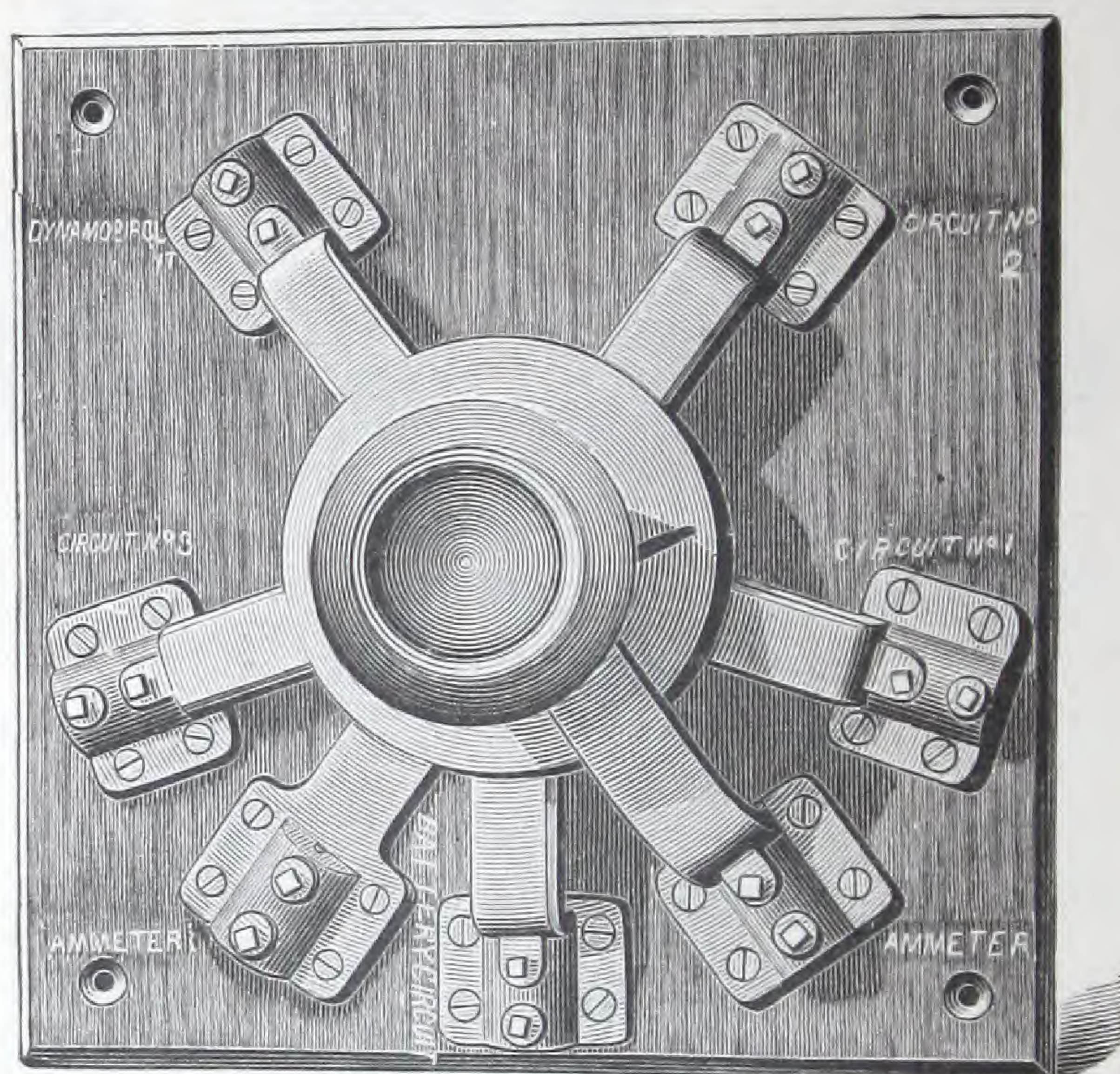


Fig. 24.

Fig. 25. Compound Edco Switch, for charging any number of cells at a time, while the same or a different number may be used for the discharge.

Price, oak base, single connection, . . . \$40.00

“ “ double “ . . . 45.00

“ Polished mahogany, single connection, 50.00

“ “ double “ 55.00

Fig. 26. Single Knife Switch, for opening or closing a circuit.

Price, . . . . . \$11.00



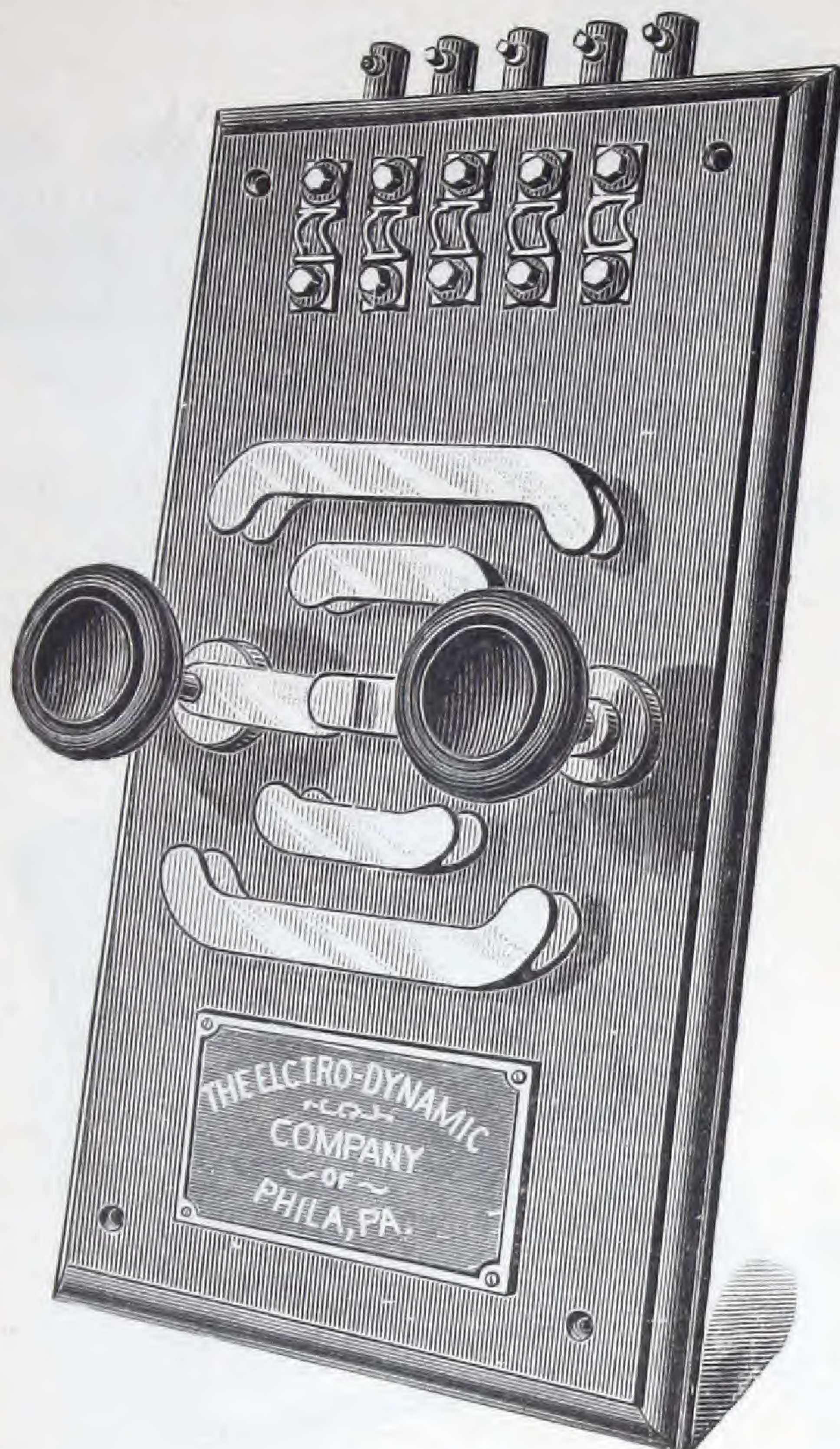


Fig. 25.

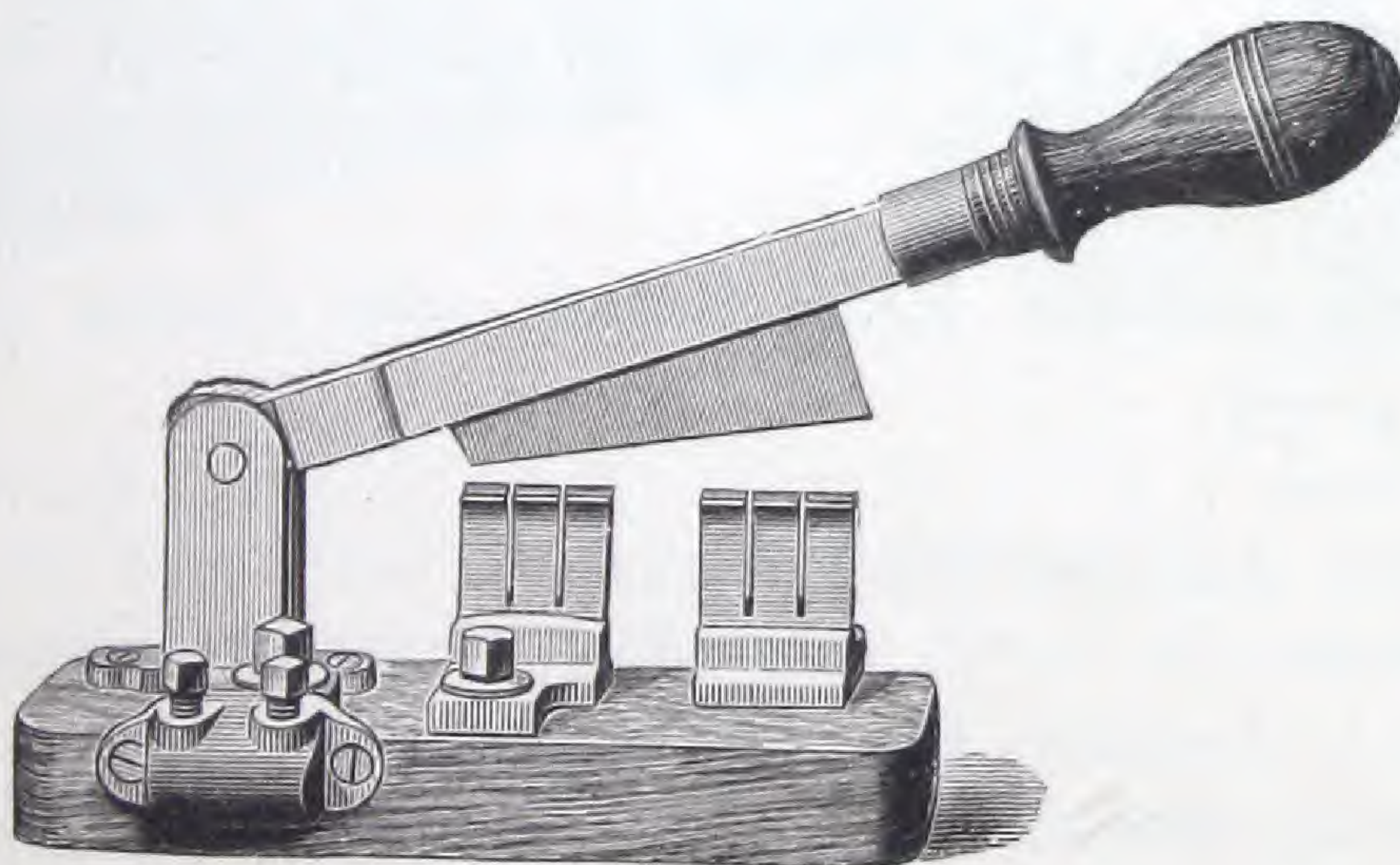


Fig. 26.



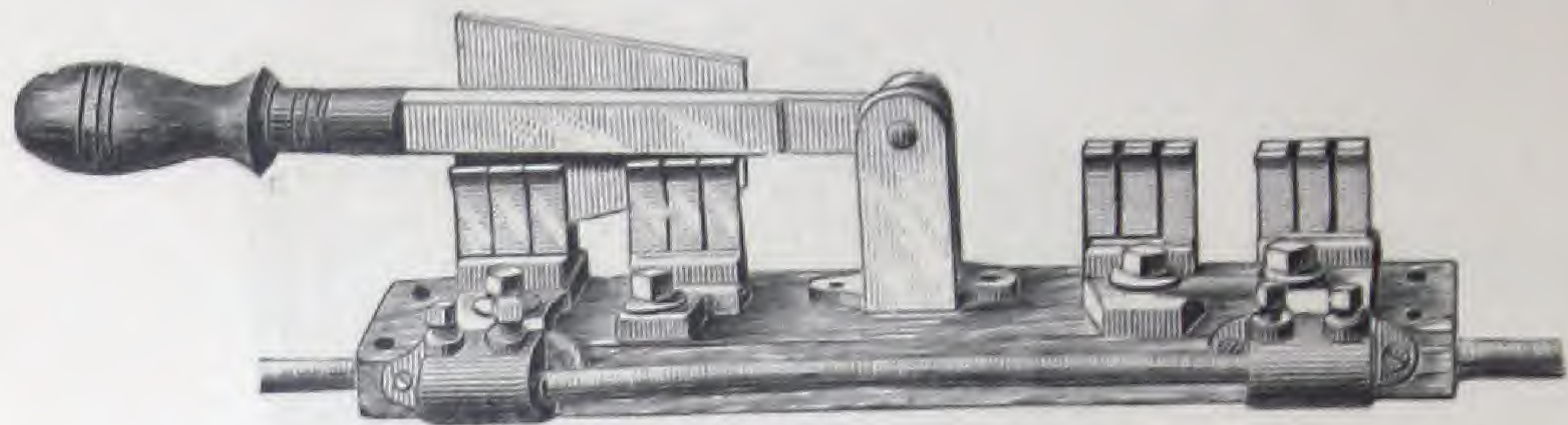


Fig. 27.

Fig. 27. Double Knife Switch, with fusible strip, to connect two circuits to one base so that but one can be used at a time.

Price, . . . . . \$16.00



Fig. 28.

Fig. 28. Edco Knife Switch, with fusible strip, to make or break circuit.

Price, . . . . . \$15.00

Fig. 29. Ammeter Knife Switch, with fusible strip, and heavy contacts.

Price, . . . . . \$11.00

Fig. 30. Ammeter Pin Switch.

Price, . . . . . \$3.50

Fig. 31. Ammeter Plug Switch.

Price, Switch, . . . . . \$20.00

“ Plug, . . . . . 15.00



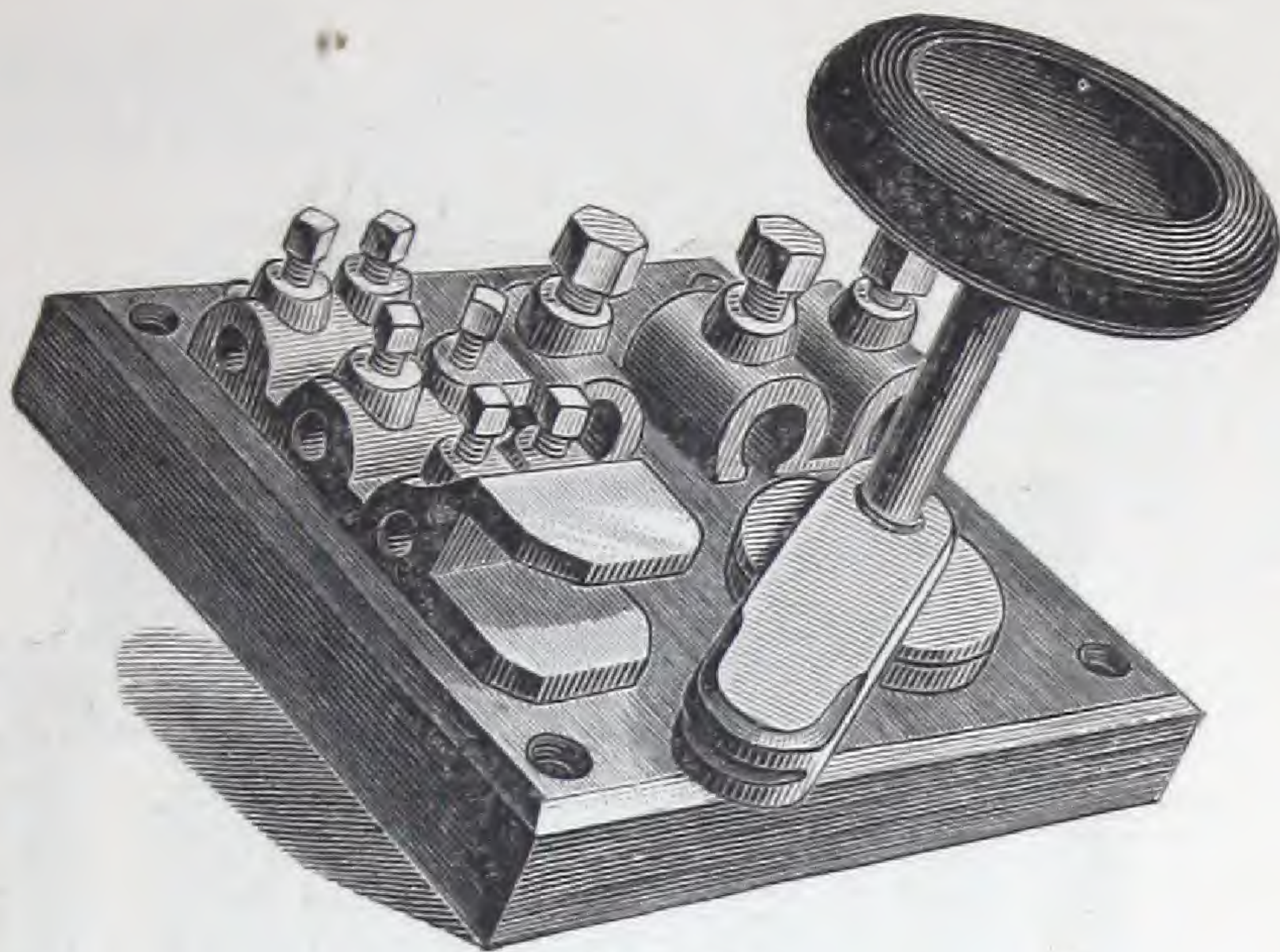


Fig. 29.

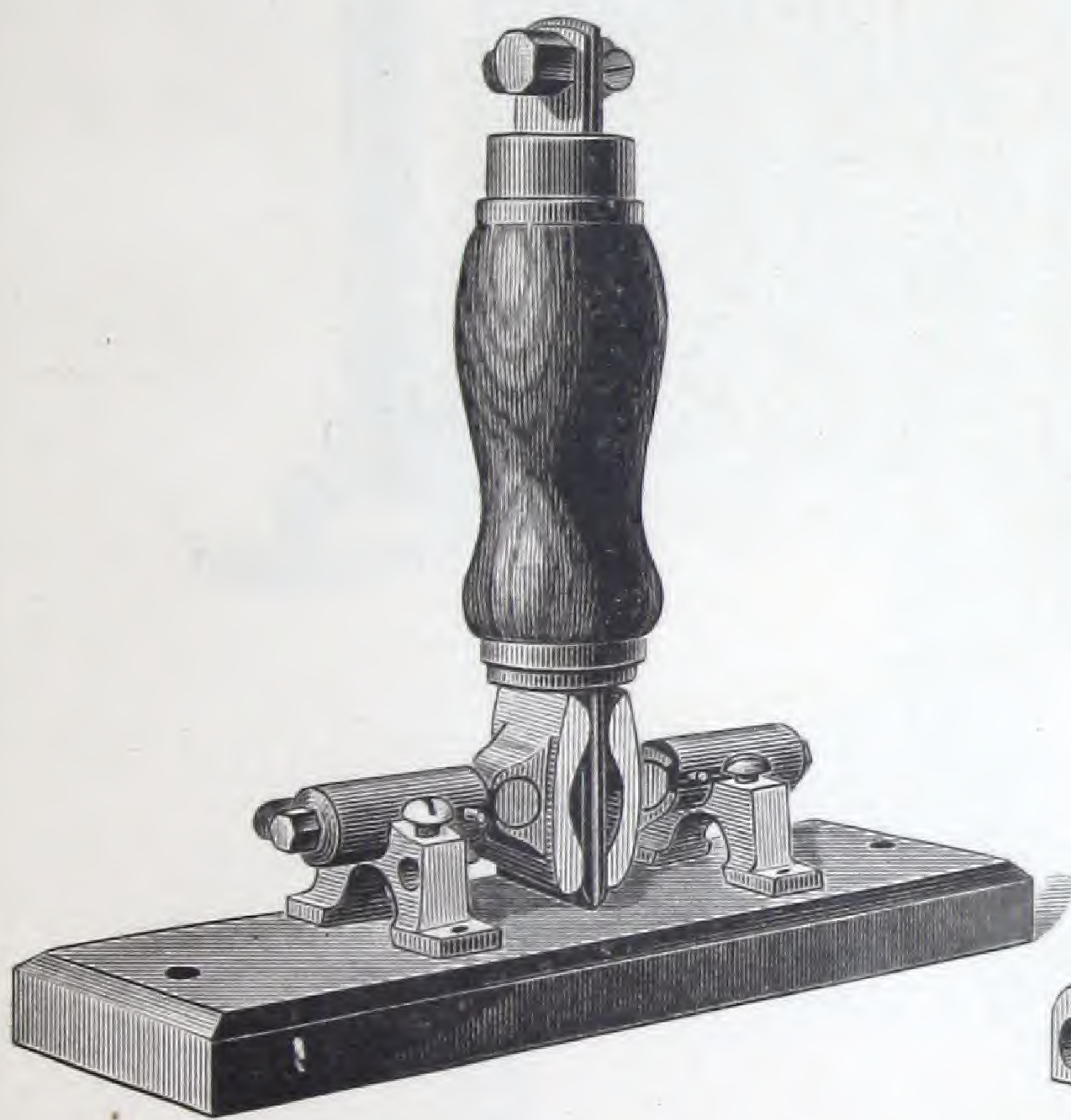


Fig. 31.

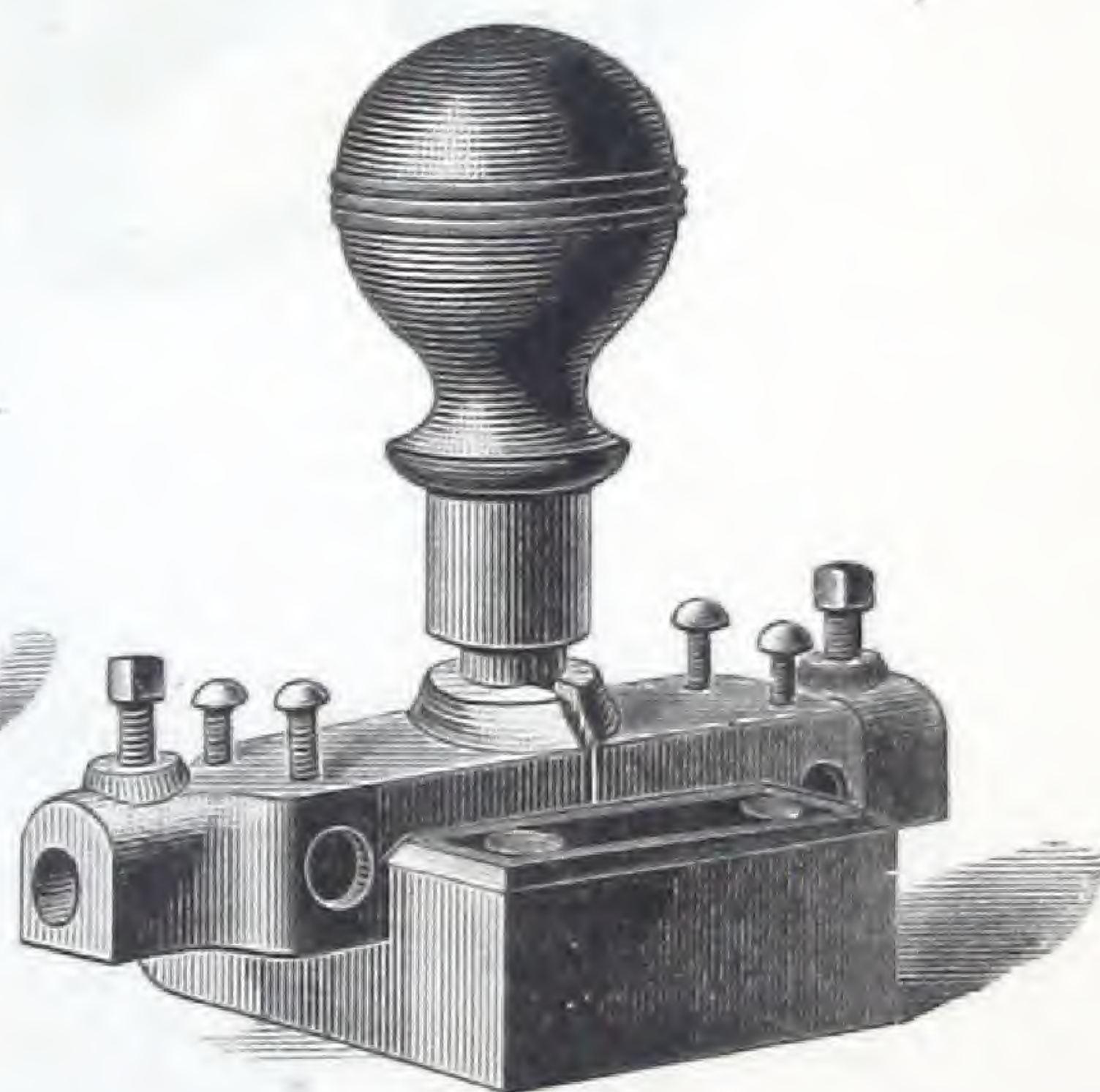


Fig. 30.

Fig. 32. Overload Switch and Resistance Box, to automatically insert resistance in discharging circuit when too heavy a current is being taken from the battery.

Price, Switches, . . . . \$15.00 to \$17.00

“ Resistance Boxes, . . . 40.00 to 50.00



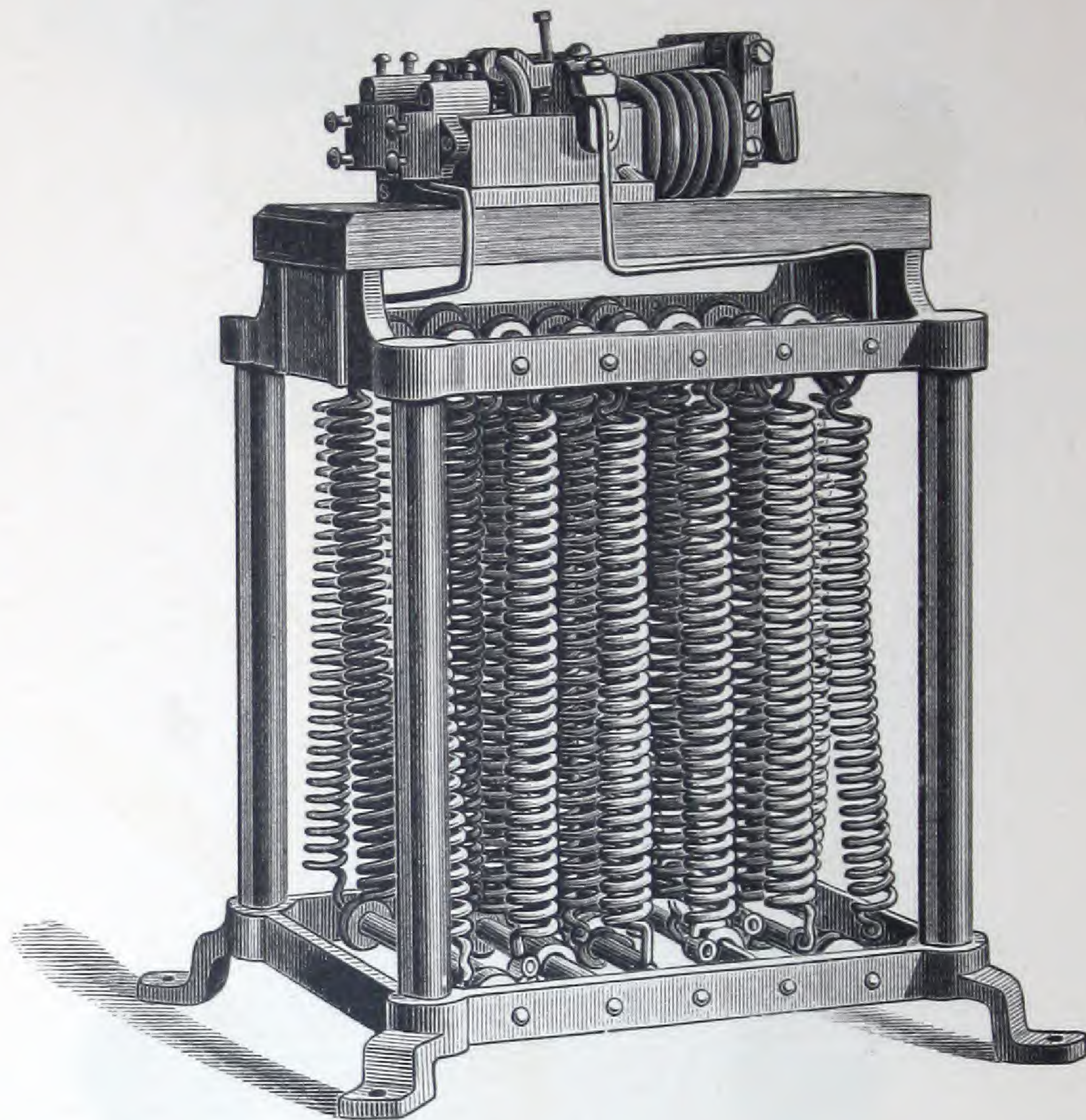


Fig. 32.

Fig. 33. Overdischarge Switch and Resistance Box, to automatically insert resistance in a battery when discharged below a certain voltage.

Price, . . . . . \$50.00 to \$55.00

Price for both Overdischarge and Overload Switches with one Common Resistance Box, \$80.00.

Fig. 34. Double Pole Dynamo Plug Switch, which makes or breaks both poles of the circuit.

Price, Plug, . . . . . \$20.00

“ Socket, . . . . . 25.00



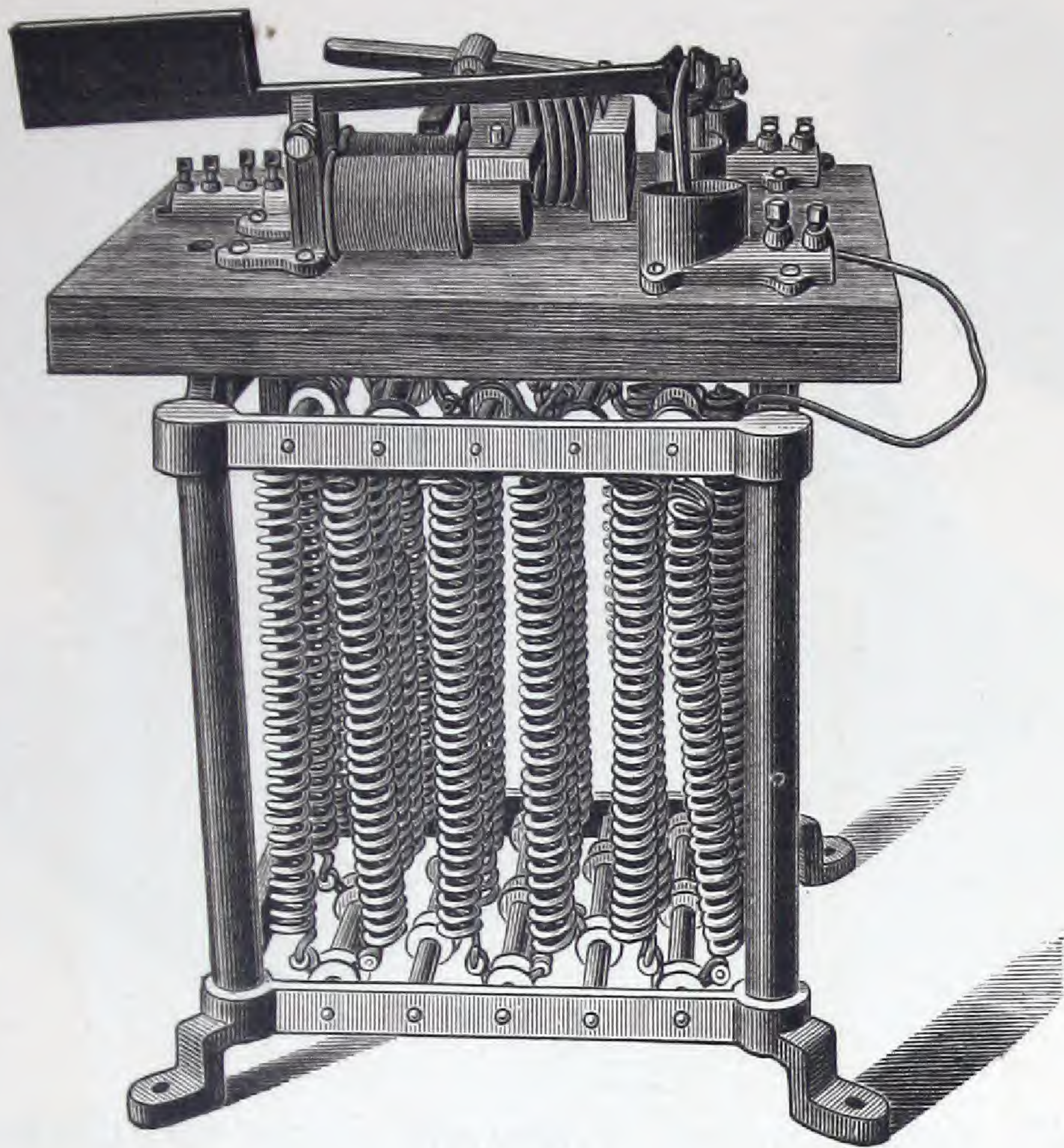


Fig. 33.

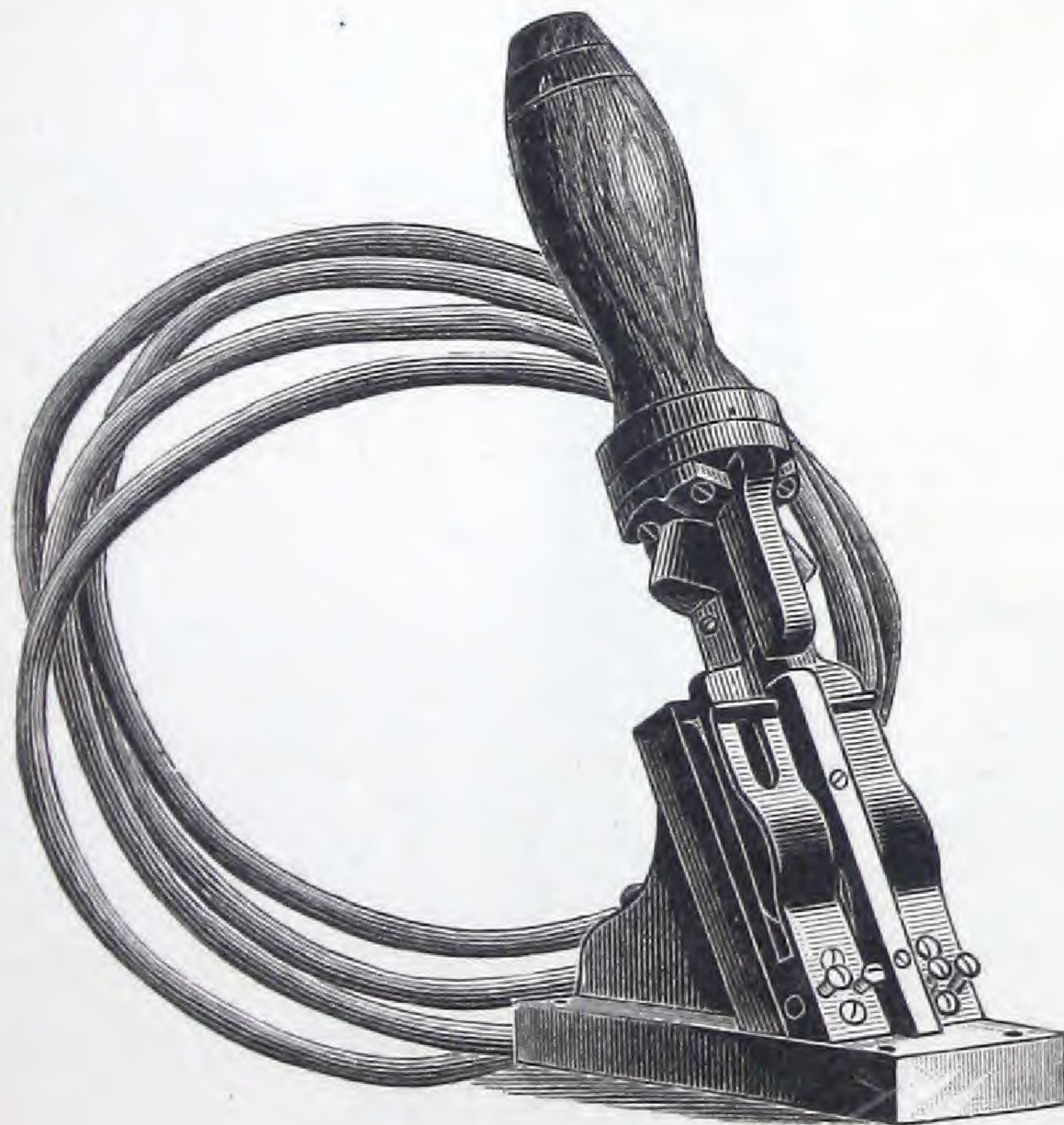


Fig. 34.



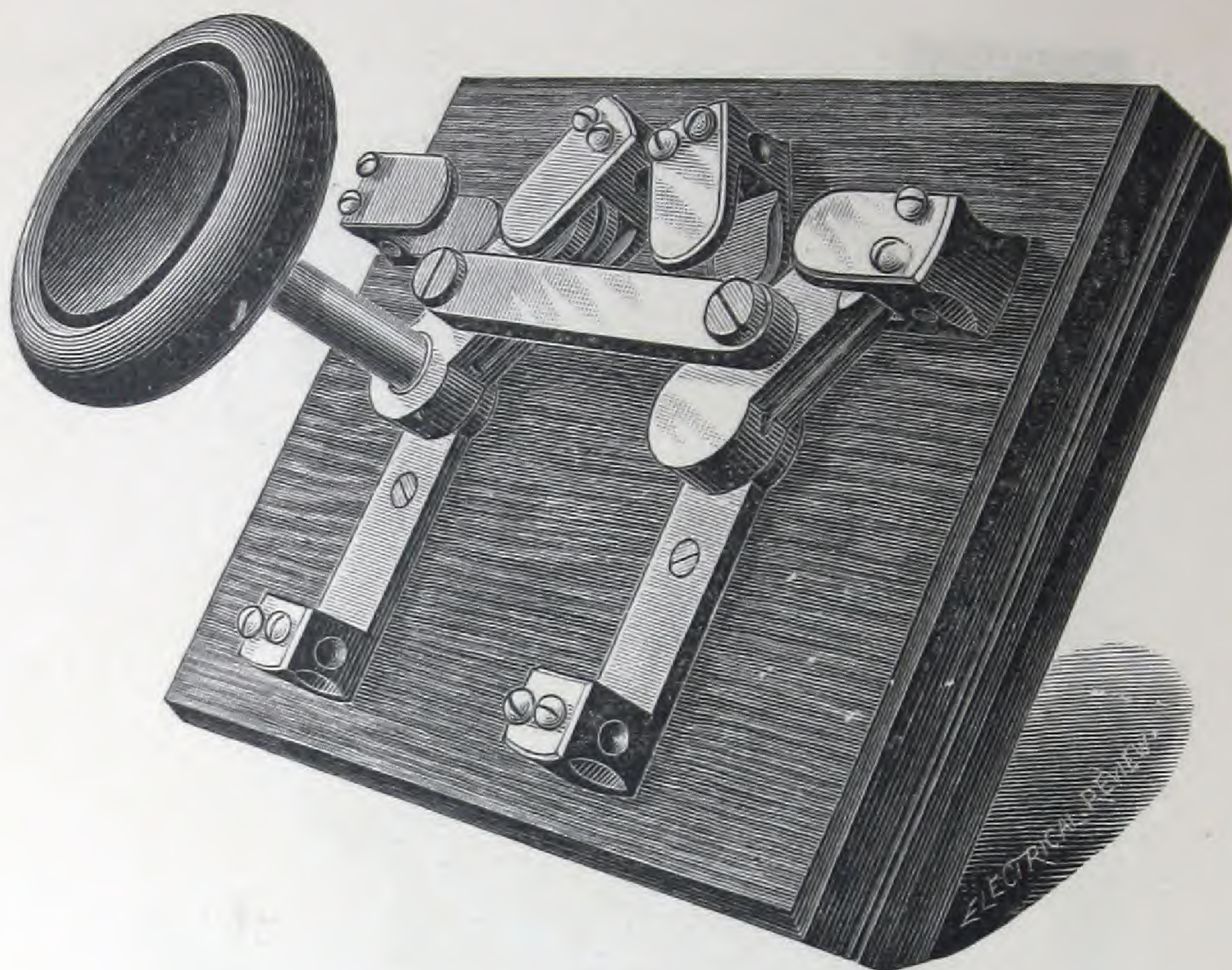


Fig. 35.

Fig. 35. Special Switch to prevent charge and discharge of battery at the same time.

Price, . . . . . \$15.00

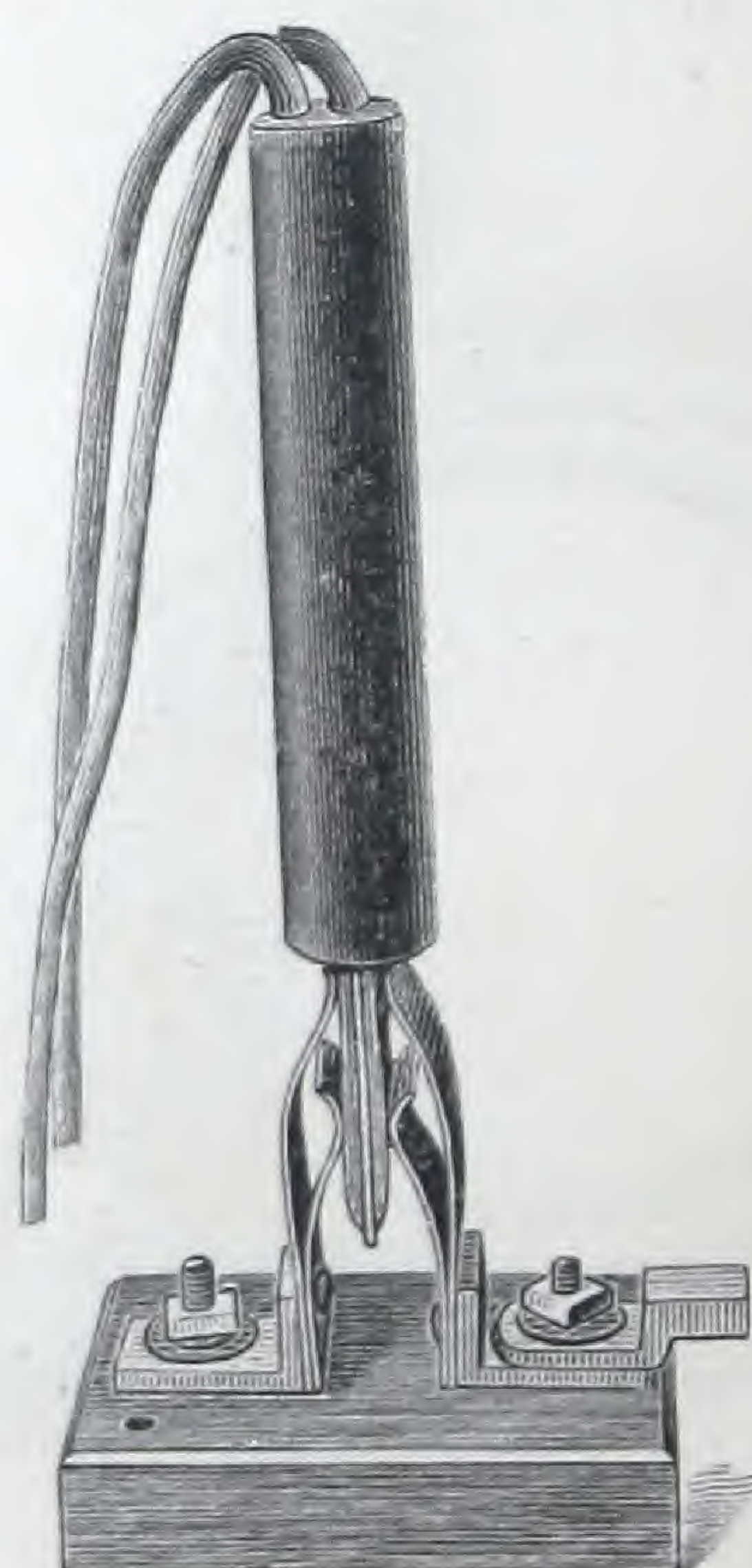


Fig. 36.



Fig. 36. Spring Ammeter Plug Switch.

Price, . . . . . \$10.00

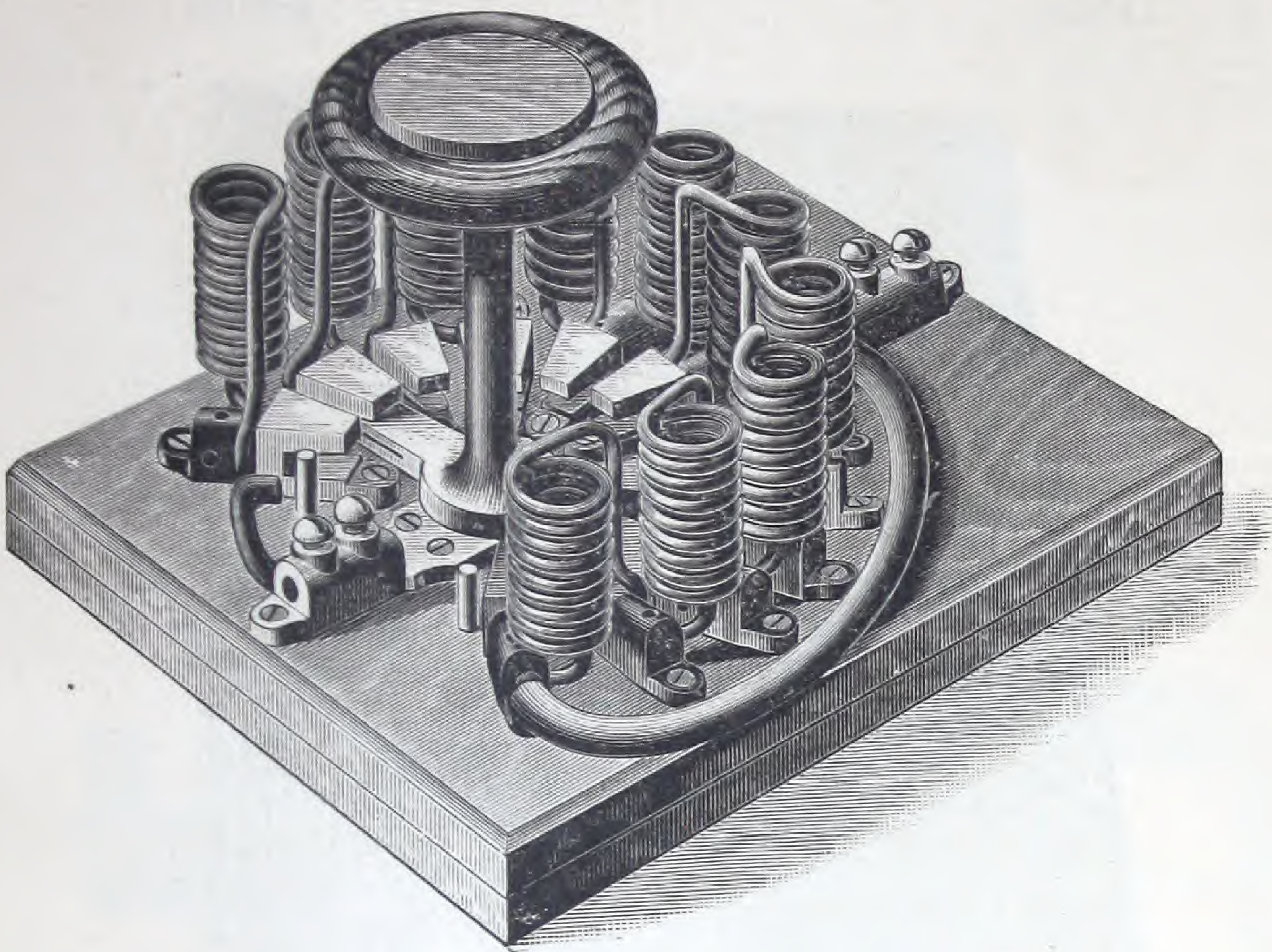


Fig. 37.

Fig. 37. Ten-point Equalizing Resistance Switch; to change the E. M. F. of the battery by inserting more or less resistance.

Price, . . . . . \$20.00

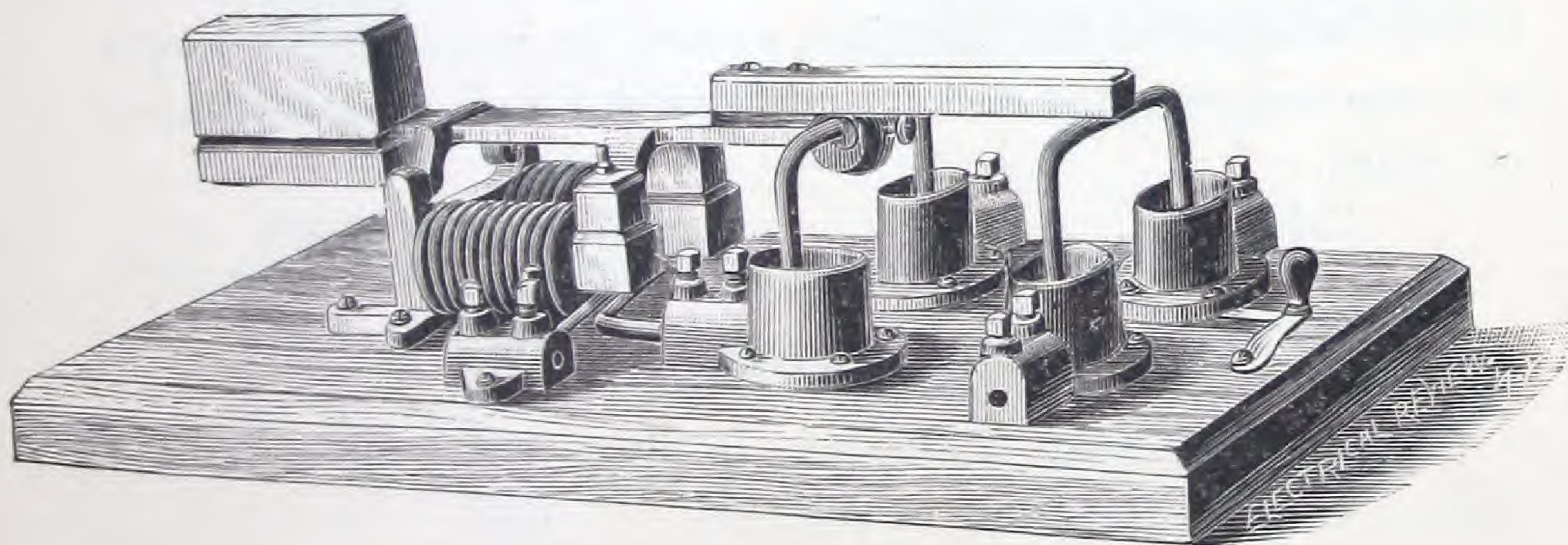


Fig. 38.



Fig. 38. Double Pole Automatic Break Switch, to prevent high-tension machines from burning out when the exterior circuit is accidentally broken.

Price, . . . . . \$20.00



Fig. 39.

Fig. 39. Car Switch-board, containing ammeter, ammeter switch, connection for voltmeter, switch for measuring voltages of lamp and charging circuits, and switch for altering brilliancy of lamps.

Price, . . . . . \$125.00

#### INDICATORS AND METERS.

Fig. 40. Balancing Indicator, to show when dynamo and battery currents are equal in voltage.

Price, . . . . . \$25.00



Edco Voltmeter, for various readings, similar in style to Fig. 40.

Price,	75 volts,	. . . . .	\$30.00
"	125 "	. . . . .	35.00
"	500 "	. . . . .	50.00
"	1,000 "	. . . . .	75.00

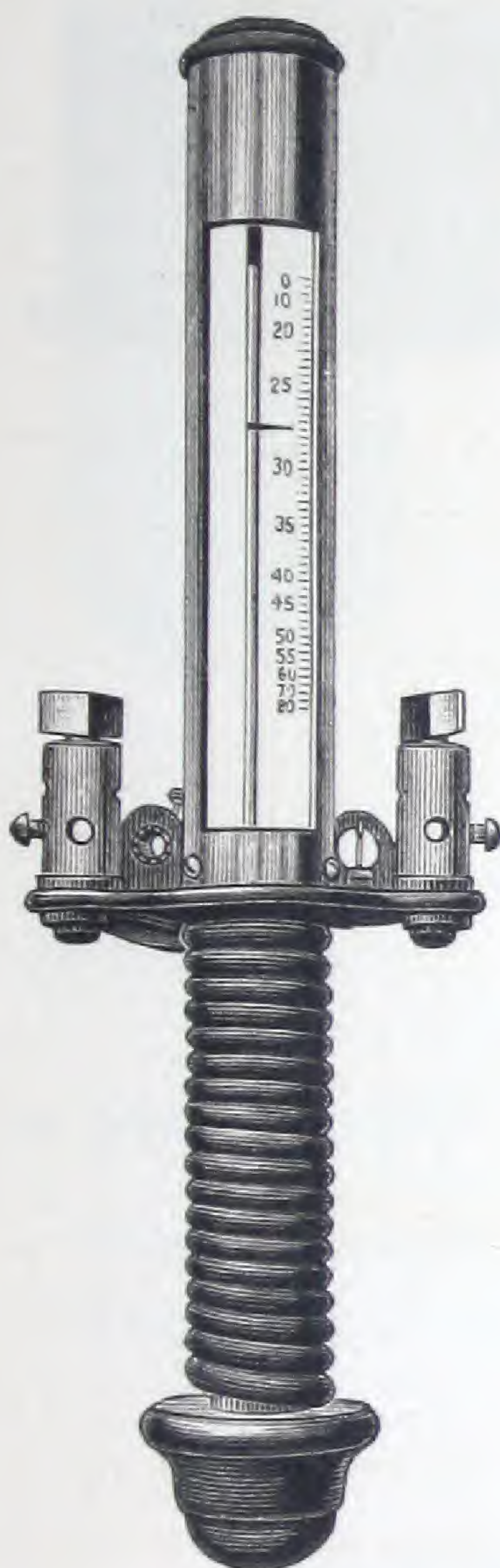


Fig. 41.

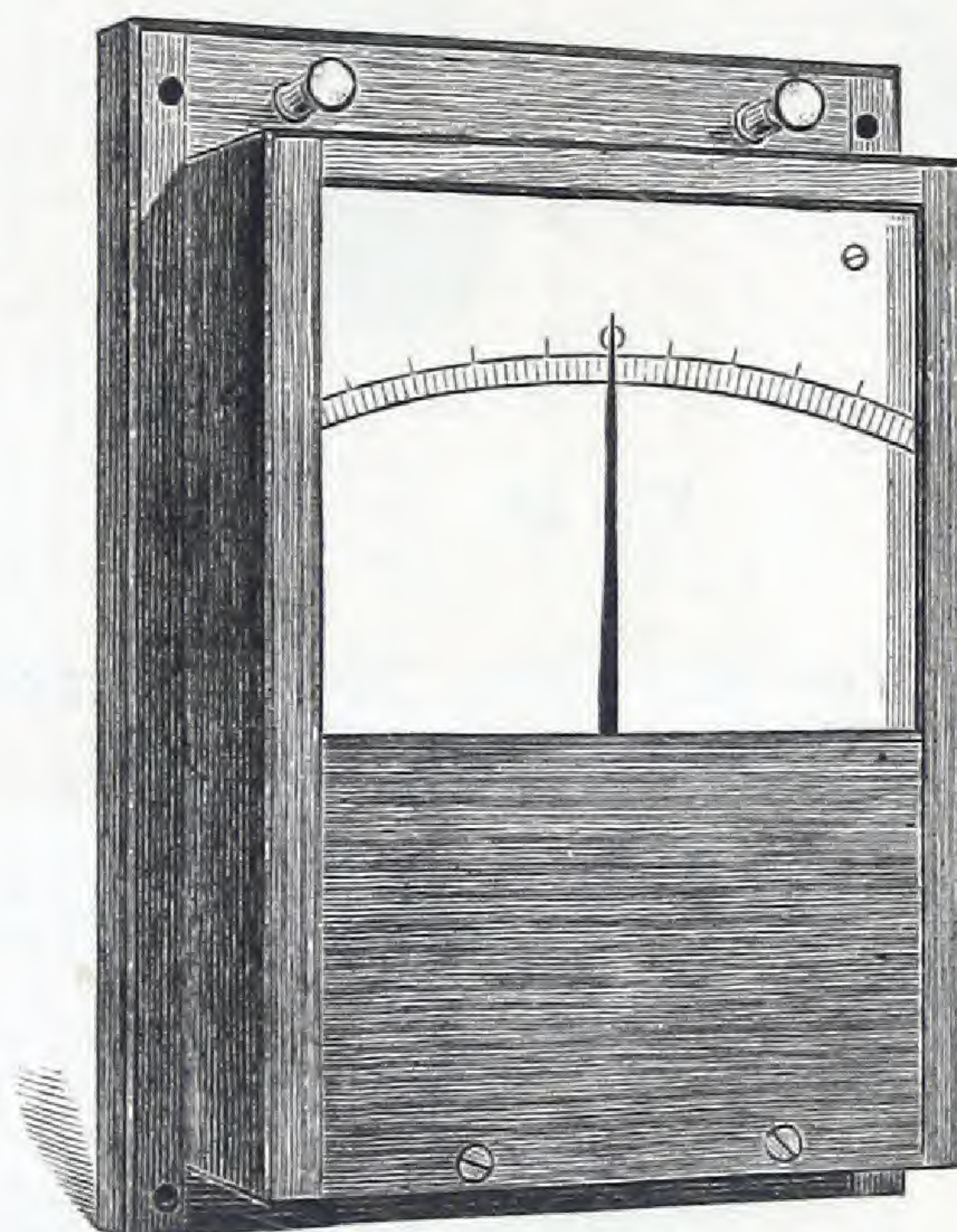


Fig. 40.

Fig. 41. Edco Ammeter, for various readings.

Price,	40 amperes,	. . . . .	\$10.00
"	80 "	. . . . .	30.00
"	150 "	. . . . .	37.50
"	400 "	. . . . .	50.00
"	1,000 "	. . . . .	100.00



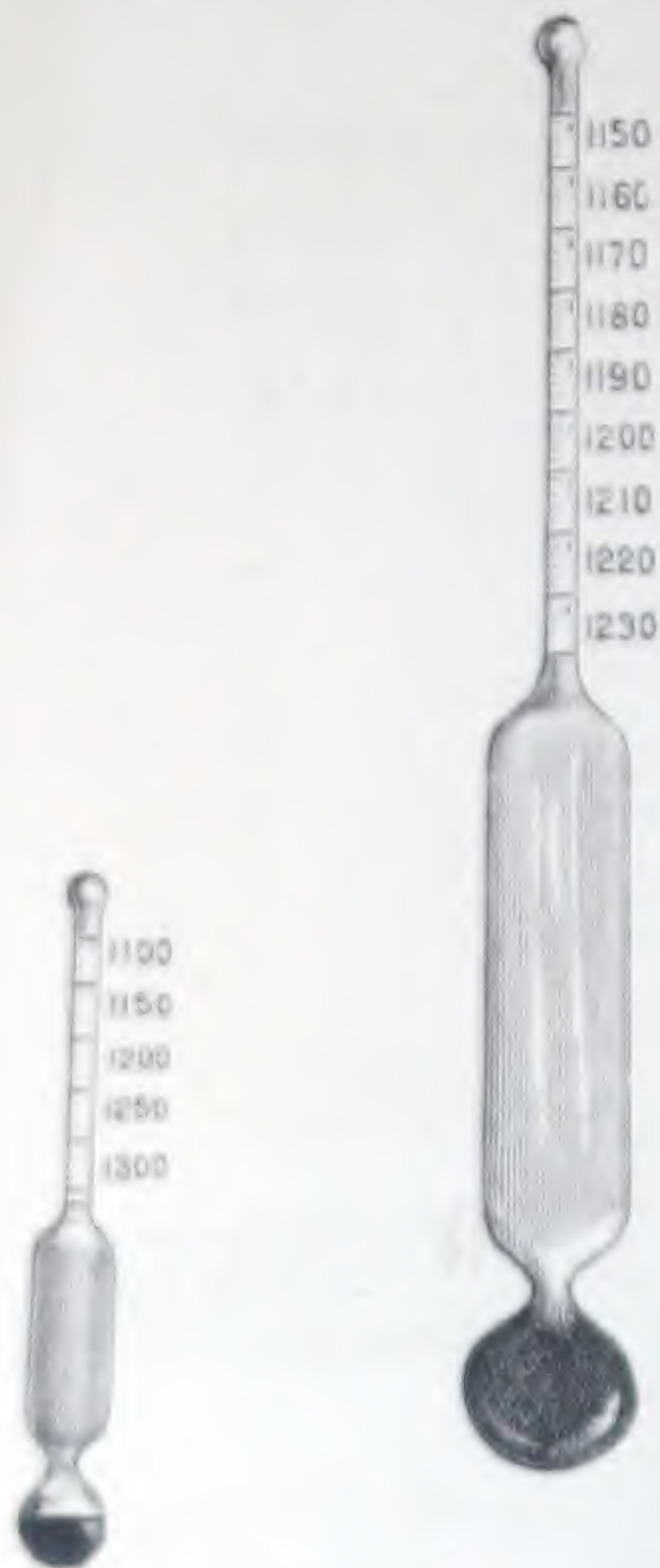


Fig. 42.

Fig. 42. Edeco Hydrometers, to measure specific gravity of liquid in storage battery cells.

Price, . . . . . \$1.00

" small, . . . . . .50

Edeco Hydrometer Floats.

Price, . . . . . .10

Current Indicator, to show direction of current.

Price, . . . . . 5.00

### MISCELLANEOUS.

Fig. 43. Edeco Lightning Arrester, to prevent damage from lightning to cables and dynamos, and to prevent short circuiting of battery from same cause.

Price, . . . . . \$2.50



Fig. 43.



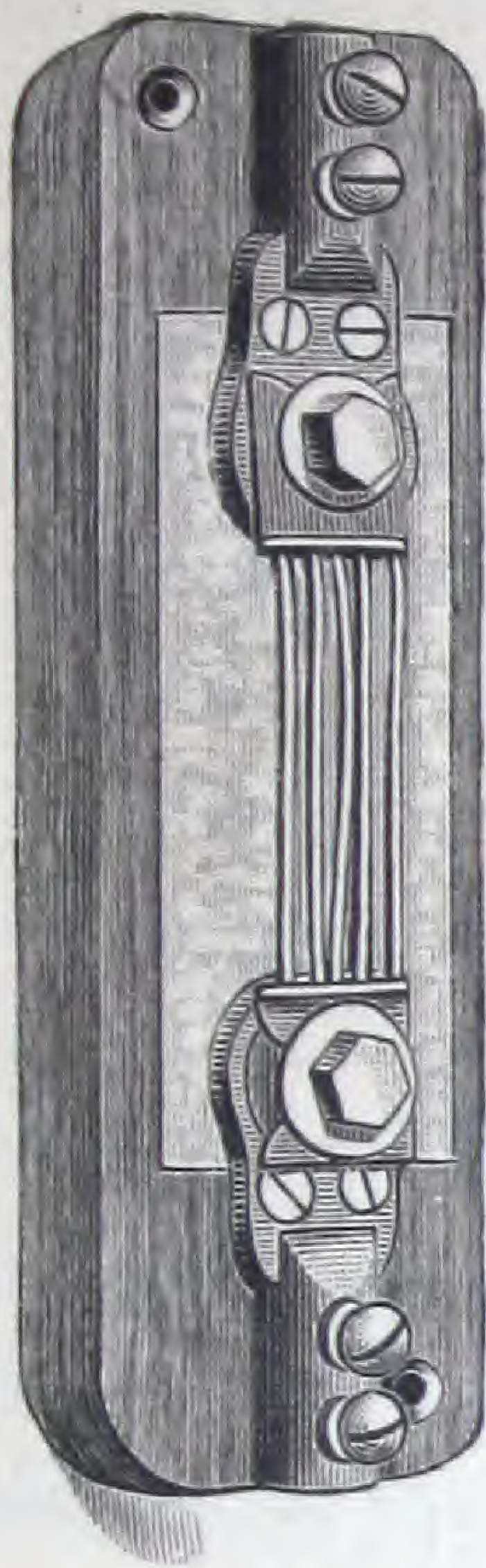


Fig. 44.

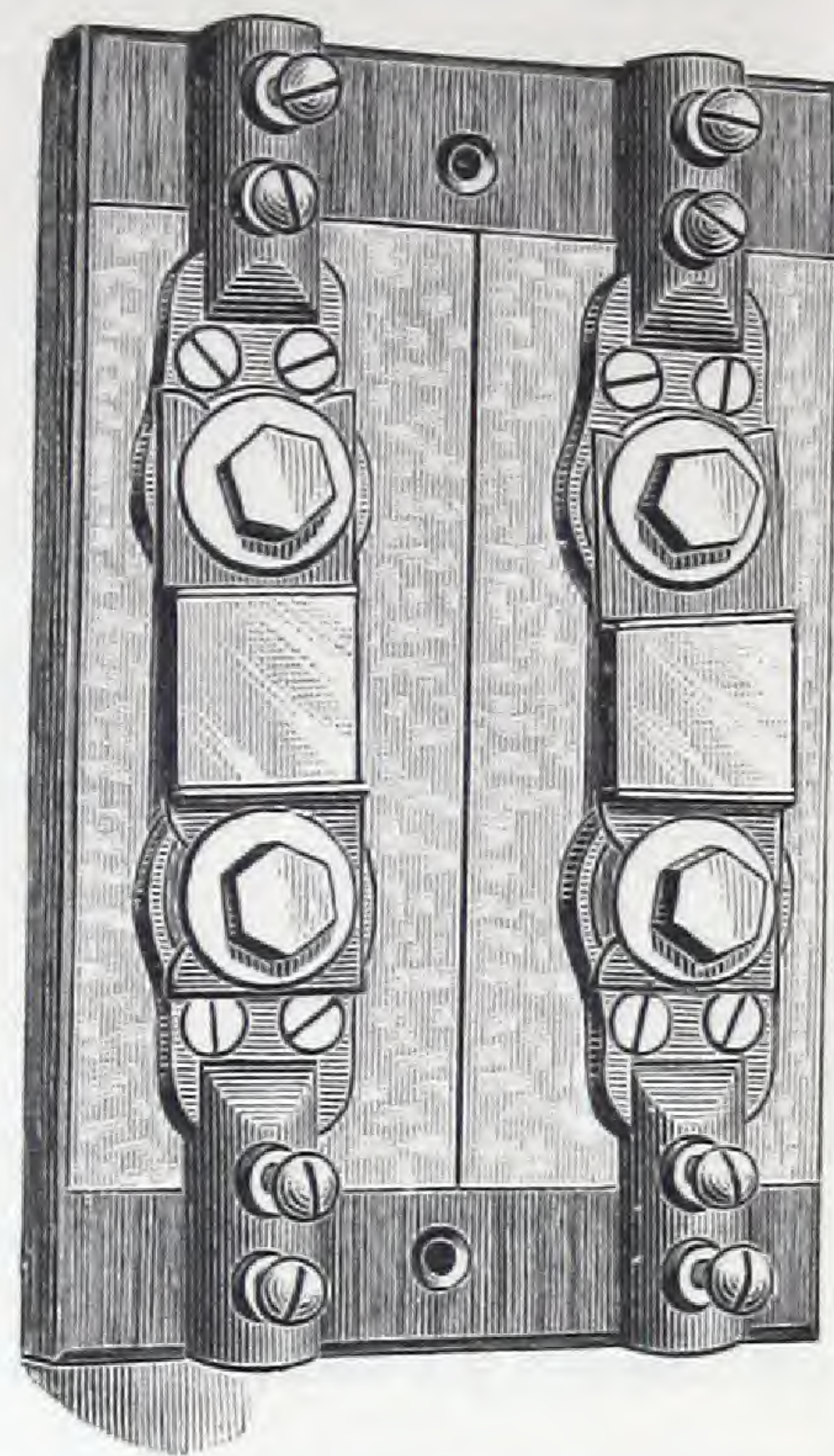


Fig. 45.

Figs. 44 and 45. Single and Double Cut-out Blocks, with Edco wire fuse.

Price, single, . . . . .	\$0.75
“ double, . . . . .	1.20
“ fuses, . . . . .	.25
Ditto, slate base, extra, . . . . .	.25
Insulating Joint, to insulate electroliers from gas pipe.	
Price, . . . . .	\$2.00

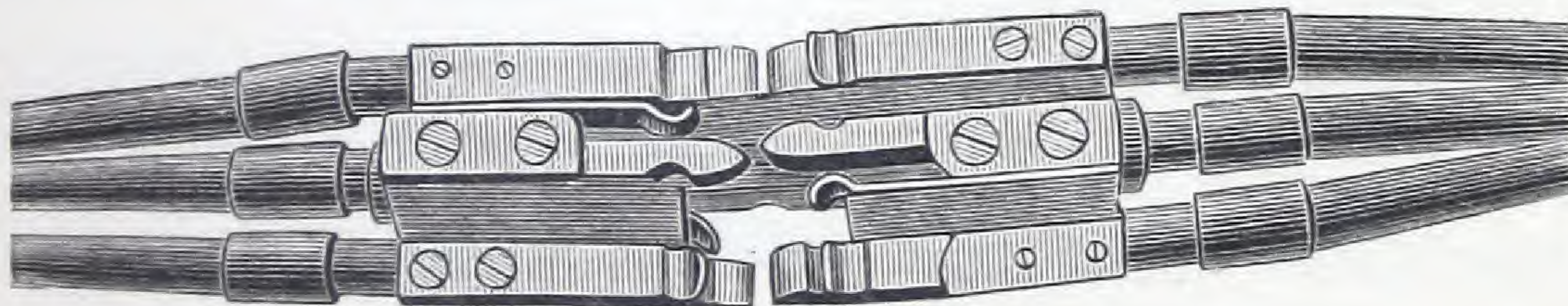


Fig. 46.

Fig. 46. Equipotential Car Coupling, for connecting charging circuit from car to car.

Price, per pair, . . . . .	\$10.00
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Equipotential Car Jumper, for closing circuit at end of train.

Price, . . . . . \$5.00

Voltmeter and Lamp combined, for Inspector's use.

Price, . . . . . \$50.00

This Company has installed its electric light machinery and appliances in some of the largest Office Buildings in America, and also in many of the recently erected buildings of banking and trust companies, especially such as have adopted the storage battery system.

Prominent among the isolated plants may be mentioned the following:

Orthopædic Hospital, Philadelphia.

J. B. Stetson & Co.'s Manufactory, Philadelphia.

American Fire Insurance Company, Philadelphia.

Pennsylvania Company for Insurance on Lives and Granting Annuities, Philadelphia.

Pennsylvania Railroad Company's General Offices, Philadelphia.

Provident Life and Trust Company, Philadelphia.

Electric Car Company of America, Philadelphia.

Brown Brothers & Co., Philadelphia.

Wharton Switch Company, Jenkintown, Pa.

A. J. Cassatt, Haverford College, Pa.

W. W. Griscom, Haverford College, Pa.



H. Markoe, Penllyn, Pa.  
 A. H. Postel, Lansdowne, Pa.  
 J. B. Stetson, Leland, Fla.  
 Jos. Stickney's Yacht "Susquehanna."  
 Red Star Line Pier, New York.  
 American Bank Note Company, New York.  
 John A. Morris's Steam Yacht "Cora."  
 Joseph Bigler's Electric Yacht "Elektron."  
 Excelsior Springs, Mo., Hotel.  
 James Campbell, Honolulu, S. I.  
 Wm. N. Armstrong, San Francisco, Cal.  
 Pullman's New York and Chicago Limited Train.  
 Pullman's Florida Limited Train.  
 Provincial Railway of Buenos Ayres.  
 President Cleveland's Special Train.  
 Special Car of Cornwall & Lebanon R. R.

The following is a list of Central Station lighting plants in which the machinery and accessories manufactured by the Electro-Dynamic Company are in use.

Haverford Electric Light Company, lighting Ardmore,  
 Haverford, and Bryn Mawr.  
 Ashbourne, Pennsylvania.  
 Honesdale, Pennsylvania, Electric Light Company.  
 Watsonstown, Pennsylvania, Electric Light Company.  
 Bethlehem, Pennsylvania, Electric Light Company.  
 Reading, Pennsylvania, Electric Light Company.  
 Allentown, Pennsylvania, Electric Light Company.  
 Newport, Rhode Island, Incandescent Electric Light Com-  
 pany.  
 Lehigh, Pennsylvania, Electric Light Company.



Cherryfield, Maine, Electric Light Company.

Brunswick, Maine, Electric Light Company.

Kansas City, Missouri, Electric Light Company.

Detroit, Michigan, Electrical Accumulator and Lighting Company.

Saratoga, New York, Gas and Electric Light Company.

Phillipsburg, Pennsylvania, Electric Light, Gas, Power, and Heating Company.

Burrton, Kansas, Electric Light Company.

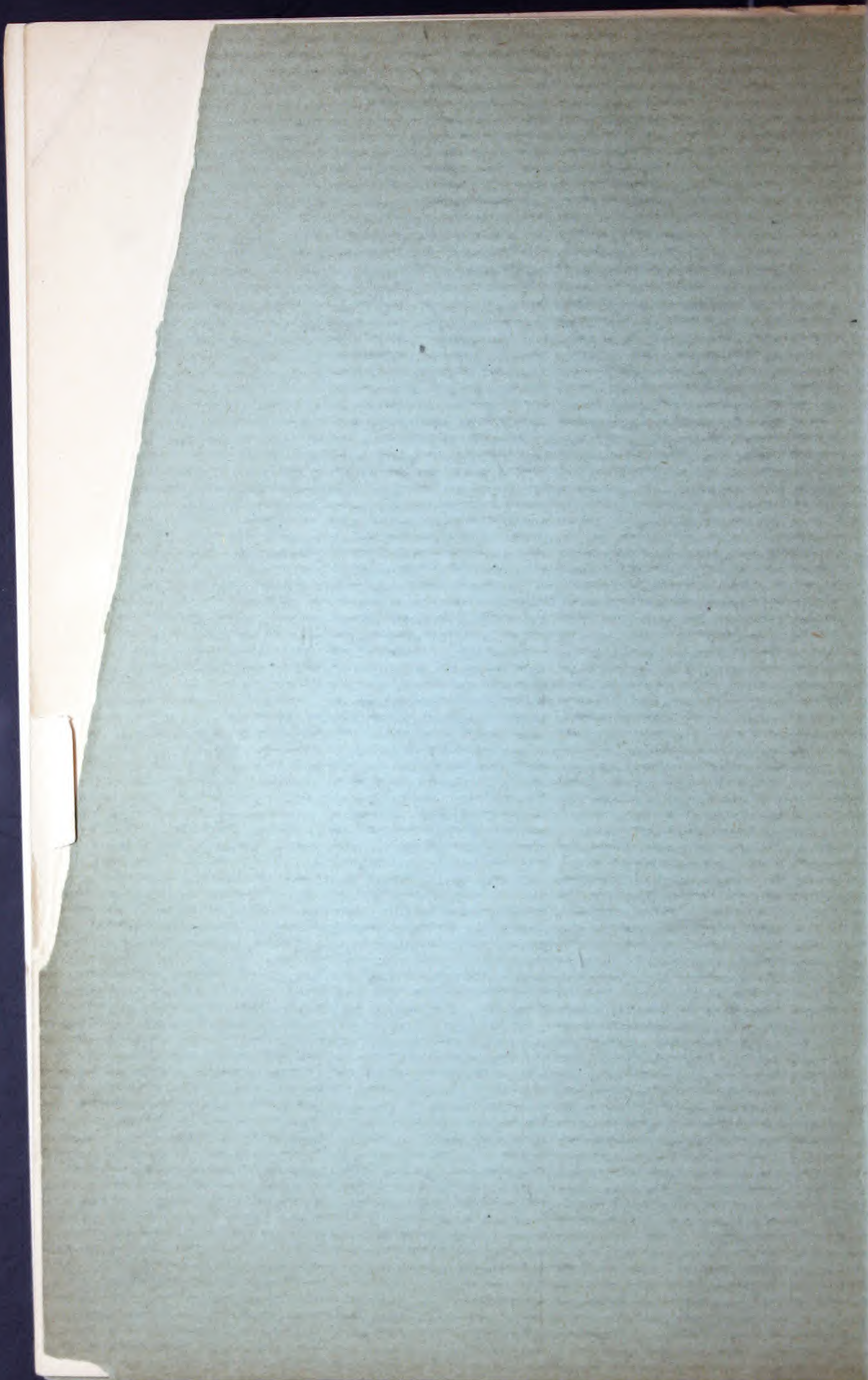
Springfield, Massachusetts, United Electric Light Company.

The Electro-Dynamic Company is prepared, also, to build special machines and devices for inventors at reasonable rates, and to test and repair instruments in its laboratory at a fair compensation.











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